

APPENDIX E, vol. 1 of 2,
to supplement

**POTENTIAL ENVIRONMENTAL HAZARDS
ON
INACTIVE / ABANDONED MINE LANDS,

CORONADO NATIONAL FOREST,
SOUTHEAST ARIZONA**

APPENDIX E
is the documentation for derivation of EH values and HH values



CHIRICAHUA, DRAGOON, GALIURO, HUACHUCA, PATAGONIA (CANELO HILLS), PELONCILLO, PINALENO, SANTA CATALINA-RINCON in this volume.

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

OCTOBER 1993

APPENDIX E

DOCUMENTATION FOR DERIVATION OF EH AND HH VALUES

CHIRICAHUA-PEDREGOSA

CHIRICAHUA-PEDREGOSA MOUNTAINS

<u>Name</u>	<u>EH no.</u>	<u>HH no.</u>	<u>Priority Category</u>	<u>Page</u>
1. Hilltop Mine	40.3	53.8	A	E3
2. Unnamed adit and decline	18.7	18.7	B	E5
3. Eureka lower adit	17.3	46.7		E7
4. Silver Prince Mine	17.3	46.7		E9
5. Unnamed adit complex	17.3	36.3		E11
6. El Tigre Mine	17.3	36.0		E13
7. Silver Hill Mine	17.3	25.9		E15
8. Clair Group Mines	14.4	23.0		E17
9. Unnamed workings	10.4	28.0		E19
10. Blacksmith West	10.4	28.0		E21
11. Unnamed adits	10.4	28.0		E23
12. Unnamed shaft and prospects	10.4	28.0		E25
13. Grace Mine	10.4	25.5		E27
14. Unnamed prospect	10.4	24.9		E29
15. Unnamed adit	10.4	15.6		E31
16. Unnamed adit and decline	10.4	15.6		E33
17. Unnamed adit	10.4	15.6		E35
18. Unnamed adit and shaft	10.4	12.1		E37
19. Columbia Mine	17.3 8.7	25.9		E39
20. Black Queen Mine	8.7	24.9		E41
21. Unnamed adits	8.7	19.4		E43
22. Rieder Tunnel	8.7	13.8		E45

CHIRICAHUA-PEDREGOSA MOUNTAINS--Continued

<u>Name</u>	<u>EH no.</u>	<u>HH no.</u>	<u>Priority Category</u>	<u>Page</u>
23. Unnamed shaft, decline	8.6	25.9	B	E47
24. Lead Lily shaft	8.6	13.8		E49
25. Unnamed shaft	7.2	17.3		E51
26. Unnamed prospect	3.5	6.2	C	E53
27. Unnamed decline and shaft	3.5	5.8		E55
28. Chiricahua Mine	3.1	4.3		E57
29. Unnamed prospects	1.7	9.3		E59

40.3
/53.8

P. 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Chiricahua - Pedregosa
Primary Name: Hilltop Mine
Alternate Name: Kasper Tunnel, Rhem, Grey, Blacksmith Tunnels
MASDB MILS Table Sequence number: 0040030156
Date of Report: 7-27-93 Sample number(s): CH 28-32

LOCATION DATA

State: AZ County: Cochise Township: 16S Range: 30E Section: 32,33
Latitude: N 31 59 07 Longitude: W 109 17 21 Elevation (ft): 6,400
7.5' or 15' Quadrangle Map Name: Rustler Park Scale: 7.5
Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☐ Copper ☒ Lead ☒ Mercury ☐ Zinc ☒ Other ☐

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☐ Small to Medium (10,000 to 250,000 st) ☒Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☒ Galena ☒ Marcasite ☐ Sphalerite ☒
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☒
Other FeOx ☐

Neutralizing Host Rock:

Dolomite ☐ Limestone ☒ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit 4 Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ☒ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☒ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

SIZE OF FEATURE (ft)

Length ☐ x Width ☐ x Height ☐

About 20,000 tons of dump at Main Kasper Dump
May be 8,000 tons of dump at Grey Dump

WATER

Are bodies of water found on or near the site? (y/n) Y
Please mark with an X all that apply:
Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐
Other _____

Is water present at the feature? (y/n) Y
Is water being produced from the feature? (y/n) Y
If water is present, how does it occur?:
Standing ☐ Filled ☐ Partly Filled ☒ Flowing ☒ Intermittent ☐
If water is present, what color is it?:
Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐
Other color white

MACHINERY

Is machinery present at the site? (y/n) Y
Location of Machinery:
Inside Building ☐ Outside Building ☐ No Building, Other Location ☒
Type of Machinery:
Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐
Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☒ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N
If present, give type and location _____

ACCESS

Access is by:
Maintained Road ☒ 4WD Road to < 1/2 mi of site ☐
4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐
There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:
Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☒
Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐
Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
2 B = Status (Table E-2).
1.2 C = Type (Table E-3).
1.4 D = Size (Table E-4).
2 E = Milling Method (Table E-5).
1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 40.3$$

Human Hazard (HH):

8 A = Commodity (Table E-1, Human column).
2 B = Status (Table E-2).
1.2 C = Type (Table E-3).
1.4 D = Size (Table E-4).
2 E = Milling Method (Table E-5).
1 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 53.8$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

18.7 / 18.7

P. 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Clinical - Pedregosa
Primary Name: Unnamed Adit, decline
Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 7-28-93 Sample number(s): CH 60-64

LOCATION DATA

State: AZ County: Cochise Township: 17S Range: 30E Section: 4
Latitude: N315836 Longitude: W1091653 Elevation (ft): 6,460
7.5' or 15' Quadrangle Map Name: Rustler Park Scale: 7.5
Mining or Mineral District: Californi'a

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ___ Lead ☒ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ☒ Galena ☒ Marcasite ___ Sphalerite ☒
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit ☒ Decline ☒ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream River Pond Intermittent Stream X Lake Bay

Other

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) Y

If water is present, how does it occur?:

Standing Filled Partly Filled Flowing Intermittent

If water is present, what color is it?:

Brown Green Yellow Yellow/orange Orange Gray/black

Other color

MACHINERY

Is machinery present at the site? (y/n) Y

Location of Machinery:

Inside Building Outside Building No Building, Other Location

Type of Machinery:

Flotation Cell Retort Stamp Mill Crusher Ball or Rod Mill

Amalgamation Equipment Arrastre Ore Bins Tanks Other

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) Y

If present, give type and location

ACCESS

Access is by:

Maintained Road 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site Trail or undrivable Road Cross-country

There is a habitation < 1/2 mi from the site (y/n)

OTHER

Are any of the following other features present?:

Drums or Tanks Headframes Tramways Bags Scrap Metal

Trestles Wooden Structures Overhead Cables Powerlines

Power Substations Transformers Chemicals Other

HAZARD CALCULATIONS

Environmental Hazard (EH):

7 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1.2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.2 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 18.7

Human Hazard (HH):

6 A = Commodity (Table E-1, Human column).

1.2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.2 F = Access (Table 9).

HH = A x B x C x D x E x F = 18.7

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

17.3
/46.7

P. 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFCO

Management Unit: _____

Primary Name: Blumberg Canyon AditAlternate Name: Eureka Lower AditMASDB MILS Table Sequence number: 0040030004Date of Report: 7-27-93 Sample number(s): CH 5-10

LOCATION DATA

State: AZ County: Cochise Township: 16S Range: 32E Section: 32Latitude: N 31 59 42 Longitude: W 109 17 37 Elevation (ft): 6,3507.5' or 15' Quadrangle Map Name: Rustler Park Scale: 7.5Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ☒ Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ☒ Galena ☒ Marcasite ___ Sphalerite ☒Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit ☒ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ☒ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n)

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n)

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Gables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1 F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

¹EH = A x B x C x D x E x F = 17.3

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).

2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.8 F = Access (Table 9).

¹HH = A x B x C x D x E x F = 46.7

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

17.3
/46.7

P. 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOCManagement Unit: Chiricahua - PedregosaPrimary Name: Silver Prince Mine

Alternate Name: _____

MASDB MILS Table Sequence number: 0040030212Date of Report: 7-28-93 Sample number(s): CH 65-72

LOCATION DATA

State: AZ County: Cochise Township: 17S Range: 30E Section: 8Latitude: N315815 Longitude: W1091750 Elevation (ft): 60807.5' or 15' Quadrangle Map Name: Rustler Park Scale: 7.5Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper ☐ Lead ☒ Mercury ☒ Zinc ☒ Other ☐

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☒ Marcasite ☐ Sphalerite ☒Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☒Other FeOx ☐

Neutralizing Host Rock:

Dolomite ☐ Limestone ☒ Marble ☐ Micrite ☐ Sparite ☐Other Carbonate ☐

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit 2 Decline ☐ Shaft 1 Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐Other ☐

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ☐ Partly Concealed ☐Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐Foundation ☐ Prone to Wind Erosion ☐ Other ☐

SIZE OF FEATURE (ft)

Length ☐ x Width ☐ x Height ☐

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) Y

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☒ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color white

MACHINERY

Is machinery present at the site? (y/n) Y

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) Y

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 17.3

Human Hazard (HH):

7 A = Commodity (Table E-1, Human column).

2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.6 F = Access (Table 9).

HH = A x B x C x D x E x F = 46.7

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

17.3
/36.3

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Chiricahua - Pedregosa

Primary Name: Unnamed Adit Complex

Alternate Name: _____

MASDB MILS Table Sequence number: 0040030055

Date of Report: 7-29-93 Sample number(s): CH 93-122

LOCATION DATA

State: AZ County: Cochise Township: 17S Range: 30E Section: 13

Latitude: N 315 713 Longitude: W 109 1454 Elevation (ft): 6140

7.5' or 15' Quadrangle Map Name: Portal Scale: 7.5

Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ☒ Lead ___ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ☒ Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ☒ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

2 large dumps mostly grown over with vegetation

WATER

Are bodies of water found on or near the site? (y/n) h

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) h

Is water being produced from the feature? (y/n) h

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☒ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2 B = Status (Table E-2).

1.1 C = Type (Table E-3).

1.2 D = Size (Table E-4).

7 E = Milling Method (Table E-5).

7 F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 17.3

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).

2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

7 E = Milling Method (Table E-5).

1.4 F = Access (Table 9).

HH = A x B x C x D x E x F = 36.3

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

17.3
/36.0

P. 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOCManagement Unit: Chiricahua - PedregosaPrimary Name: El Tigre Mine

Alternate Name: _____

MASDB MILS Table Sequence number: 0040030132Date of Report: 7-28-93 Sample number(s): CH 73-75

LOCATION DATA

State: AZ County: Cochise Township: 17S Range: 30E Section: 21Latitude: N 315606 Longitude: W 109 1706 Elevation (ft): 6,7207.5' or 15' Quadrangle Map Name: Rustler Park Scale: _____Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ☒ Zinc ___ Other ___

Status of Operation:

Past Producer ☒ Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground ☒ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit 6 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) 2 Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) y

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) h

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) h

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☒ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- 6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
- 2 B = Status (Table E-2).
- 1.2 C = Type (Table E-3).
- 1.2 D = Size (Table E-4).
- 1 E = Milling Method (Table E-5).
- 1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 17.3$$

Human Hazard (HH):

- 9 A = Commodity (Table E-1, Human column).
- 2 B = Status (Table E-2).
- 1 C = Type (Table E-3).
- 1 D = Size (Table E-4).
- 1 E = Milling Method (Table E-5).
- 2 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 36.0$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

- Category A: EH > 20
- Category B: EH between 7 and 20
- Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

17.3/
25.9

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Chiricahua Pedregosa

Primary Name: Silver Hill Mine

Alternate Name: _____

MASDB MILS Table Sequence number: 0040030211

Date of Report: 7-30-93 Sample number(s): CH 163-176

LOCATION DATA

State: AZ County: Cochise Township: 17S Range: 30E Section: 24

Latitude: N3156.41 Longitude: W10913.23 Elevation (ft): 5,440

7.5' or 15' Quadrangle Map Name: Portal Scale: 7.5

Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ☒ Mercury ☒ Zinc ___ Other ___

Status of Operation:

Past Producer ☒ Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ☒ Marcasite ___ Sphalerite ___

Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft ☒ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☒

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 2 B = Status (Table E-2).
 1/2 C = Type (Table E-3).
 1/2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0
 $EH = A \times B \times C \times D \times E \times F = 12.3$

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).
 2 B = Status (Table E-2).
 1/2 C = Type (Table E-3).
 1/2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1 F = Access (Table 9).
 $HH = A \times B \times C \times D \times E \times F = 25.9$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

14.4/23.0

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOCManagement Unit: Chiricahua-PedregosaPrimary Name: Cigar Group Mines

Alternate Name: _____

MASDB MILS Table Sequence number: 004003117Date of Report: 7-27-93 Sample number(s): N/A

LOCATION DATA

State: AZ County: Co Township: 15S Range: 29E Section: 36Latitude: N 32 04 47 Longitude: W 109 20 05 Elevation (ft): 56007.5' or 15' Quadrangle Map Name: Cochise Head Scale: 7.5Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☐ Copper ☒ Lead ☒ Mercury ☐ Zinc ☐ Other ☐

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☒ Galena ☒ Marcasite ☐ Sphalerite ☐
Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐
Other FeOx ☐

Neutralizing Host Rock:

Dolomite ☐ Limestone ☒ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit ☐ Decline ☐ Shaft ☒ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☐

Mark all conditions that apply:

Open to Entry ☐ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

SIZE OF FEATURE (ft)

Length ☐ x Width ☐ x Height ☐

WATER

Are bodies of water found on or near the site? (y/n) h

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) h

Is water being produced from the feature? (y/n) h

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☒

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

5 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 14.4

Human Hazard (HH):

8 A = Commodity (Table E-1, Human column).

2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1 F = Access (Table 9).

HH = A x B x C x D x E x F = 23.0

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Chiricahua-Pedregosa

Primary Name: Unnamed Working S

Alternate Name: _____

MASDB MILS Table Sequence number: 0040030070

Date of Report: 7-30-93 Sample number(s): CH 177-194

LOCATION DATA

State: AZ County: Cochise Township: 17S Range: 30E Section: 24

Latitude: N315636 Longitude: W1091328 Elevation (ft): 5,770

7.5' or 15' Quadrangle Map Name: Portal Scale: 7.5

Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☐ Copper ☐ Lead ☒ Mercury ☒ Zinc ☒ Other ☐

Status of Operation:

Past Producer ☐ Explored Prospect ☒ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☒ Marcasite ☐ Sphalerite ☒
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☒ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

Type and number of workings: (Indicate with an X or 1, 2, etc.)

Adit ☐ Decline ☒ Shaft ☒ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☒

Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐

Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐

Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐

Other ☐

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐

Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐

Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐

Foundation ☐ Prone to Wind Erosion ☐ Other ☐

SIZE OF FEATURE (ft)

Length ☐ x Width ☐ x Height ☐

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0
 $EH = A \times B \times C \times D \times E \times F = 10.4$

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.8 F = Access (Table 9).
 $HH = A \times B \times C \times D \times E \times F = 28.0$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

10.4/28.0

P. 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOCManagement Unit: Chivichua-Pedregos 9Primary Name: Blacksmith West

Alternate Name: _____

MASDB MILS Table Sequence number: NoneDate of Report: 7-27-93 Sample number(s): CH 25-26

LOCATION DATA

State: AZ County: Cochise Township: 16S Range: 30E Section: 33Latitude: N 31 59 21 Longitude: W 109 17 15 Elevation (ft): 68207.5' or 15' Quadrangle Map Name: Rustler Park Scale: 7.5Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ☒ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit ☒ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

E 21

WATER

Are bodies of water found on or near the site? (y/n) ✓
Please mark with an X all that apply:
Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐
Other _____

Is water present at the feature? (y/n) ☐

Is water being produced from the feature? (y/n) ✓

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location _____

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ✓

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ✓

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1,2 B = Status (Table E-2).

1,2 C = Type (Table E-3).

1,2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 10.4

Human Hazard (HH):

7 A = Commodity (Table E-1, Human column).

1,2 B = Status (Table E-2).

1,2 C = Type (Table E-3).

1,2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1,8 F = Access (Table 9).

HH = A x B x C x D x E x F = 28.0

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

Category C: EH < 7

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

10.4 / 28.0

P. 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Chiricahua - Pedregosa

Primary Name: Unnamed Adit's

Alternate Name: _____

MASDB MILS Table Sequence number: None

Date of Report: 7-27-93 Sample number(s): CH 11-22

LOCATION DATA

State: AZ County: Cochise Township: 16S Range: 30E Section: 32,33

Latitude: N31 59 35 Longitude: W109 17 17 Elevation (ft): 6640

7.5' or 15' Quadrangle Map Name: Rustler Park Scale: 7.5

Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ☒ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit 2 Decline 1 Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ☒ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

E23

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other One Car

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
1.2 B = Status (Table E-2).
1.2 C = Type (Table E-3).
1.2 D = Size (Table E-4).
1 E = Milling Method (Table E-5).
1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0
EH = A x B x C x D x E x F = 10.4

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).
1.2 B = Status (Table E-2).
1.2 C = Type (Table E-3).
1.2 D = Size (Table E-4).
1 E = Milling Method (Table E-5).
1.8 F = Access (Table 9).
HH = A x B x C x D x E x F = 28.0

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20
Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Chiricahua - Pedregosa
Primary Name: Unnamed Shaft and Prospects
Alternate Name: _____
MASDB MILS Table Sequence number: 0040030193
Date of Report: 8-3-93 Sample number(s): CH 202-205

LOCATION DATA

State: AZ County: Cochise Township: 17S Range: 31E Section: 21
Latitude: N315604 Longitude: W1091105 Elevation (ft): 5,420
7.5' or 15' Quadrangle Map Name: Port 91 Scale: 7.5
Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other _____

Status of Operation:

Past Producer _____ Explored Prospect _____ Raw Prospect _____ Developed Prospect _____

Status Unknown ☒

Type of Operation:

Surface _____ Underground _____ Surface and Underground ☒ Mineral Location _____

Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____

No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) _____

Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____

Large (over 1,000,000 st) _____

HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____
Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____
Jig Plant _____ Retort _____ No Mill ☒ Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite _____ Chalcopyrite _____ Galena ☒ Marcasite _____ Sphalerite ☒
Pyrite ☒ Pyrrhotite _____ Stibnite _____ Other sulfide _____ Limonite _____
Other FeOx _____

Neutralizing Host Rock:

Dolomite _____ Limestone ☒ Marble _____ Micrite _____ Sparite _____
Other Carbonate _____

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit _____ Decline ☒ Shaft ☒ Glory Hole _____ Small Pit or Trench (< 10 ft) _____
Large Pit (> 10 ft) ☒ Quarry _____ Placer _____ Building _____ Machinery _____
Cistern _____ Solution Mining Well _____ Mine Dump _____ Mill Tailings _____
Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile _____ Subsidence _____
Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved _____ Concealed _____ Partly Concealed _____
Collapsed _____ Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____
Unstable Wall _____ Eroded _____ Partly Eroded _____ Intact _____ Subsided _____
Foundation _____ Prone to Wind Erosion _____ Other _____

SIZE OF FEATURE (ft)

Length _____ x Width _____ x Height _____

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0
 $EH = A \times B \times C \times D \times E \times F = 10.4$

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.8 F = Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 28.0$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

E26

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Chiricahua - Pedregosa

Primary Name: Grace Mine

Alternate Name: _____

MASDB MILS Table Sequence number: 0040030243/0040030148

Date of Report: 8-3-93 Sample number(s): CH 208-215

LOCATION DATA

State: AZ County: Cochise Township: 17S Range: 31E Section: 36

Latitude: N31S413 Longitude: W1090739 Elevation (ft): 4,870

7.5' or 15' Quadrangle Map Name: Portal/Portal Northeast Scale: 7.5

Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper _____ Lead _____ Mercury ☒ Zinc _____ Other _____

Status of Operation:

Past Producer _____ Explored Prospect ☒ Raw Prospect _____ Developed Prospect _____

Status Unknown _____

Type of Operation:

Surface _____ Underground _____ Surface and Underground ☒ Mineral Location _____

Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____

No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) _____

Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____

Large (over 1,000,000 st) _____

HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____

Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____

Jig Plant _____ Retort _____ No Mill ☒ Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite _____ Chalcopyrite _____ Galena ☒ Marcasite _____ Sphalerite ☒

Pyrite ☒ Pyrrhotite _____ Stibnite _____ Other sulfide _____ Limonite ☒

Other FeOx _____

Neutralizing Host Rock:

Dolomite _____ Limestone ☒ Marble _____ Micrite _____ Sparite _____

Other Carbonate _____

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit ☒ Decline _____ Shaft ☒ Glory Hole _____ Small Pit or Trench (< 10 ft) ☒

Large Pit (> 10 ft) ☒ Quarry _____ Placer _____ Building _____ Machinery _____

Cistern _____ Solution Mining Well _____ Mine Dump _____ Mill Tailings _____

Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile _____ Subsidence _____

Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved _____ Concealed _____ Partly Concealed _____

Collapsed _____ Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____

Unstable Wall ☒ Eroded _____ Partly Eroded _____ Intact _____ Subsided _____

Foundation _____ Prone to Wind Erosion _____ Other _____

SIZE OF FEATURE (ft)

Length _____ x Width _____ x Height _____

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream X Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road X Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) X

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0
 $EH = A \times B \times C \times D \times E \times F = 10.4$

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.6 F = Access (Table 9).
 $HH = A \times B \times C \times D \times E \times F = 25.5$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

10.4/
24.9

P. 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOCManagement Unit: Chiricahua - PedregosaPrimary Name: Unnamed Prospect

Alternate Name: _____

MASDB MILS Table Sequence number: 0040030047Date of Report: 7-28-93 Sample number(s): SH-76-77

LOCATION DATA

State: AZ County: Cochise Township: 12S Range: 30E Section: 21,22Latitude: N 31 56 30 Longitude: W 109 16 17 Elevation (ft): 7,2007.5' or 15' Quadrangle Map Name: Rustler Park Scale: 7.5Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium X Copper X Lead X Mercury ___ Zinc X Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface X Underground ___ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite X Galena X Marcasite ___ Sphalerite XPyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) X Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ✓

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

E29

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

5 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
1.2 B = Status (Table E-2).
1.2 C = Type (Table E-3).
1.2 D = Size (Table E-4).
1 E = Milling Method (Table E-5).
1.2 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 10.4

Human Hazard (HH):

8 A = Commodity (Table E-1, Human column).
1.2 B = Status (Table E-2).
1.2 C = Type (Table E-3).
1.2 D = Size (Table E-4).
1 E = Milling Method (Table E-5).
1.8 F = Access (Table 9).

HH = A x B x C x D x E x F = 24.9

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20
Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

10.4 / 15.6

P. 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOCManagement Unit: Chiricahua - PedregosaPrimary Name: Unnamed Adit

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 7-28-93 Sample number(s): CH 56-58

LOCATION DATA

State: AZ County: Cochise Township: 16 S Range: 30 E Section: 34Latitude: N 31 59 25 Longitude: W 109 15 47 Elevation (ft): 54657.5' or 15' Quadrangle Map Name: Rustler Park Scale: 7.5Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ☒ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ☒ Micrite ___ Sparite ___

Other Carbonate ___

Type and number of workings: (Indicate with an X or 1, 2, etc.)

Adit ☒ Decline ___ Shaft ☒ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other Black widow Nests

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

E31

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) X

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☒ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☒

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☒

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

$E A =$ Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

$1.2 B =$ Status (Table E-2).

$1.2 C =$ Type (Table E-3).

$1.2 D =$ Size (Table E-4).

$1 E =$ Milling Method (Table E-5).

$1 F =$ Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$EH = A \times B \times C \times D \times E \times F = 10.4$

Human Hazard (HH):

$H A =$ Commodity (Table E-1, Human column).

$1.2 B =$ Status (Table E-2).

$1.2 C =$ Type (Table E-3).

$1.2 D =$ Size (Table E-4).

$1 E =$ Milling Method (Table E-5).

$1 F =$ Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 15.6$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

10.4
/15.6

P. 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOCManagement Unit: Chiricahua - PadregosPrimary Name: Unnamed Adit, decline

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 7-28-93 Sample number(s): CH 33-37

LOCATION DATA

State: AZ County: Cochise Township: 16 S Range: 30 E Section: 34Latitude: N 31 59 20 Longitude: W 109 16 08 Elevation (ft): 58007.5' or 15' Quadrangle Map Name: Rustler Park Scale: 7.5Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ☒ Galena ☒ Marcasite ___ Sphalerite ___
Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit ☒ Decline ☒ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other ___

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other ___

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) Y
Please mark with an X all that apply:
Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐
Other _____

Is water present at the feature? (y/n) N
Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:
Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐
If water is present, what color is it?:
Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐
Other color _____

MACHINERY

Is machinery present at the site? (y/n) N
Location of Machinery:
Inside Building ☐ Outside Building ☐ No Building, Other Location _____
Type of Machinery:
Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐
Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) Y
If present, give type and location Blasting Caps - In Adit

ACCESS

Access is by:
Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐
4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☒
There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:
Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐
Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐
Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

$A =$ Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 $1.2B =$ Status (Table E-2).
 $1.2C =$ Type (Table E-3).
 $1.2D =$ Size (Table E-4).
 $E =$ Milling Method (Table E-5).
 $F =$ Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, $F = 1.2$; otherwise $F = 1.0$
 $EH = A \times B \times C \times D \times E \times F = 10.4$

Human Hazard (HH):

$A =$ Commodity (Table E-1, Human column).
 $1.2B =$ Status (Table E-2).
 $1.2C =$ Type (Table E-3).
 $1.2D =$ Size (Table E-4).
 $E =$ Milling Method (Table E-5).
 $F =$ Access (Table 9).
 $HH = A \times B \times C \times D \times E \times F = 15.6$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

10.4 / 15.6

P. 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Chiricahua - Pedregosa

Primary Name: Unnamed adit

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 7-28-93 Sample number(s): CH 52-55

LOCATION DATA

State: AZ County: Cochise Township: 16S Range: 30E Section: 34

Latitude: N 31 59 23 Longitude: W 109 15 51 Elevation (ft): 5800

7.5' or 15' Quadrangle Map Name: Rustler Park Scale: 7.5

Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit ☒ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

135

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing X Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country X

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
1.2 B = Status (Table E-2).
1.2 C = Type (Table E-3).
1.2 D = Size (Table E-4).
1 E = Milling Method (Table E-5).
1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 10.4

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).
1.2 B = Status (Table E-2).
1.2 C = Type (Table E-3).
1.2 D = Size (Table E-4).
1 E = Milling Method (Table E-5).
1 F = Access (Table 9).

HH = A x B x C x D x E x F = 15.6

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20
Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

10.4
/12.1

P. 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOCManagement Unit: Chivichua - PedregosaPrimary Name: unnamed adit/shaft

Alternate Name: _____

MASDB MILS Table Sequence number: 0040030049Date of Report: 7-28-93 Sample number(s): CH 79-83

LOCATION DATA

State: AZ County: Cochise Township: 17S Range: 30E Section: 14Latitude: N 31 56 27 Longitude: W 109 14 36 Elevation (ft): 6,1207.5' or 15' Quadrangle Map Name: Port 91 Scale: 7.5Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ☒ Lead ___ Mercury ___ Zinc ☒ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground ☒ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ☒ Galena ___ Marcasite ___ Sphalerite ☒
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit ☒ Decline ___ Shaft ☒ Glory Hole ___ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

E37

WATER

Are bodies of water found on or near the site? (y/n) h

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) h

Is water being produced from the feature? (y/n) h

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☒ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) h

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

$EH = A \times B \times C \times D \times E \times F$ = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

$1.2 B =$ Status (Table E-2).

$1.2 C =$ Type (Table E-3).

$1.2 D =$ Size (Table E-4).

$1 E =$ Milling Method (Table E-5).

$1.2 F =$ Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$EH = A \times B \times C \times D \times E \times F = 10.4$

Human Hazard (HH):

$HH = A \times B \times C \times D \times E \times F$ = Commodity (Table E-1, Human column).

$1.2 B =$ Status (Table E-2).

$1.2 C =$ Type (Table E-3).

$1.2 D =$ Size (Table E-4).

$1 E =$ Milling Method (Table E-5).

$1.2 F =$ Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 12.1$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Chiricahua-Pedregosa

Primary Name: Columbia Mine

Alternate Name: _____

MASDB MILS Table Sequence number: 0040030119

Date of Report: 7-30-93 Sample number(s): CH 153-160

LOCATION DATA

State: AZ County: Cochise Township: 17S Range: 30E Section: 13

Latitude: N315702 Longitude: W1091312 Elevation (ft): 5,800

7.5' or 15' Quadrangle Map Name: Portal Scale: 7.5

Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ☒ Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ☒ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ☒ Galena ☒ Marcasite ___ Sphalerite ☒

Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit 3 Decline ___ Shaft ___ Glory Hole 1 Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☒

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- 6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 17.3$$

Human Hazard (HH):

- 9 A = Commodity (Table E-1, Human column).
 2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 25.9$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

8.7
124.9

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Chiricahua - Pedregosa
Primary Name: Black Queen Mine
Alternate Name: _____
MASDB MILS Table Sequence number: 0040030245
Date of Report: 7-30-93 Sample number(s): CH 195-198

LOCATION DATA

State: AZ County: Cochise Township: 17S Range: 31E Section: 20
Latitude: N 315622 Longitude: W 1091137 Elevation (ft): 5730
7.5' or 15' Quadrangle Map Name: Portal Scale: 7.5
Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☐ Zinc ☒ Other ☐

Status of Operation:

Past Producer ☐ Explored Prospect ☒ Raw Prospect ☐ Developed Prospect ☐
Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐
Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐
No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐
Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐
Large (over 1,000,000 st) ☐

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☒ Galena ☒ Marcasite ☐ Sphalerite ☒
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐
Other FeOx ☐

Neutralizing Host Rock:

Dolomite ☐ Limestone ☒ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit ☐ Decline ☒ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) n

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

SIZE OF FEATURE (ft)

Length ☐ x Width ☐ x Height ☐

E41

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

5 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 8.7$$

Human Hazard (HH):

8 A = Commodity (Table E-1, Human column).
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.8 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 24.9$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

8.7
/19.4

P. 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOCManagement Unit: Chiricahua - PedregosaPrimary Name: Unnamed Adits

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 7-29-93 Sample number(s): CH 123-133

LOCATION DATA

State: AZ County: Cochise Township: 17S Range: 30E Section: 13Latitude: N31 57 22 Longitude: W109 14 54 Elevation (ft): 61657.5' or 15' Quadrangle Map Name: Portal Scale: 7.5Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium X Copper X Lead ___ Mercury ___ Zinc X Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X
Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone X Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved X Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) h

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) h

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☒ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) h

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

$\sqrt[5]{A}$ = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

$1/2B$ = Status (Table E-2).

$1/2C$ = Type (Table E-3).

$1/2D$ = Size (Table E-4).

$1E$ = Milling Method (Table E-5).

$1F$ = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$EH = A \times B \times C \times D \times E \times F = 8.65$

Human Hazard (HH):

$\sqrt[8]{A}$ = Commodity (Table E-1, Human column).

$1/2B$ = Status (Table E-2).

$1/2C$ = Type (Table E-3).

$1/2D$ = Size (Table E-4).

$1E$ = Milling Method (Table E-5).

$1/4F$ = Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 19.4$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

8.7
13.8

P. 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOCManagement Unit: Chiricahua - Pedregos 9Primary Name: Rieder Tunnel

Alternate Name: _____

HMSDB MILS Table Sequence number: 0040030313Date of Report: 7-28-93 Sample number(s): CH-38-44

LOCATION DATA

State: AZ County: Cochise Township: 16.5 Range: 30E Section: 33Latitude: N315920 Longitude: W1091558 Elevation (ft): 56407.5' or 15' Quadrangle Map Name: Rustler Park Scale: 7.5Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ☒ Lead ☒ Mercury ___ Zinc ☒ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ☒ Galena ☒ Marcasite ___ Sphalerite ☒Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit ☒ Decline ___ Shaft ☒ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

E45

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream River Pond Intermittent Stream Lake Bay

Other

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing X Filled Partly Filled Flowing Intermittent

If water is present, what color is it?:

Brown Green Yellow Yellow/orange Orange Gray/black X

Other color

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building Outside Building No Building, Other Location

Type of Machinery:

Flotation Cell Retort Stamp Mill Crusher Ball or Rod Mill

Amalgamation Equipment Arrastre Ore Bins Tanks Other

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location Case of Dynamite, near ad. x face

ACCESS

Access is by:

Maintained Road 4WD Road to < 1/2 mi of site

4WD Road > 1/2 mi from site Trail or undrivable Road Cross-country X

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks Headframes Tramways Bags Scrap Metal

Trestles Wooden Structures Overhead Cables Powerlines

Power Substations Transformers Chemicals Other

HAZARD CALCULATIONS

Environmental Hazard (EH):

\sqrt{A} = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

$\sqrt{2B}$ = Status (Table E-2).

$\sqrt{2C}$ = Type (Table E-3).

$\sqrt{2D}$ = Size (Table E-4).

\sqrt{E} = Milling Method (Table E-5).

\sqrt{F} = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$EH = A \times B \times C \times D \times E \times F = 8.7$

Human Hazard (HH):

\sqrt{A} = Commodity (Table E-1, Human column).

$\sqrt{2B}$ = Status (Table E-2).

$\sqrt{2C}$ = Type (Table E-3).

$\sqrt{2D}$ = Size (Table E-4).

\sqrt{E} = Milling Method (Table E-5).

\sqrt{F} = Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 13.8$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Chiricahua - Pedregosa

Primary Name: Unnamed Shaft, Decline

Alternate Name: _____

MASDB MILS Table Sequence number: 0040030002

Date of Report: 8-3-93 Sample number(s): CHK 206-207

LOCATION DATA

State: AZ County: Cochise Township: 17S Range: 31E Section: 21

Latitude: N315601 Longitude: W1091033 Elevation (ft): 5400

7.5' or 15' Quadrangle Map Name: Portals Scale: _____

Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium _____ Copper _____ Lead _____ Mercury ☒ Zinc _____ Other _____

Status of Operation:

Past Producer _____ Explored Prospect _____ Raw Prospect ☒ Developed Prospect _____

Status Unknown _____

Type of Operation:

Surface _____ Underground _____ Surface and Underground ☒ Mineral Location _____

Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____

No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) _____

Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____

Large (over 1,000,000 st) _____

HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____
Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____
Jig Plant _____ Retort _____ No Mill ☒ Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite _____ Chalcopyrite _____ Galena _____ Marcasite _____ Sphalerite _____

Pyrite _____ Pyrrhotite _____ Stibnite _____ Other sulfide _____ Limonite _____

Other FeOx _____

Neutralizing Host Rock:

Dolomite _____ Limestone ☒ Marble _____ Micrite _____ Sparite _____

Other Carbonate _____

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit _____ Decline ☒ Shaft ☒ Glory Hole _____ Small Pit or Trench (< 10 ft) _____

Large Pit (> 10 ft) _____ Quarry _____ Placer _____ Building _____ Machinery _____

Cistern _____ Solution Mining Well _____ Mine Dump _____ Mill Tailings _____

Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile _____ Subsidence _____

Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved _____ Concealed _____ Partly Concealed _____

Collapsed _____ Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____

Unstable Wall _____ Eroded _____ Partly Eroded _____ Intact _____ Subsided _____

Foundation _____ Prone to Wind Erosion _____ Other _____

SIZE OF FEATURE (ft)

Length _____ x Width _____ x Height _____

E47

8.6
/25.9

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☒ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- 6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1 B = Status (Table E-2).
 1, 2 C = Type (Table E-3).
 1, 2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 8.6$$

Human Hazard (HH):

- 9 A = Commodity (Table E-1, Human column).
 1 B = Status (Table E-2).
 1, 2 C = Type (Table E-3).
 1, 2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 2 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 25.9$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

^{Within} a table, take only the highest value as the total value for that table.

8.6/13.8

P. 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOCManagement Unit: Chiricahua - PedregosaPrimary Name: Lead Lily Shaft

Alternate Name: _____

MASDB MILS Table Sequence number: 0040030003Date of Report: 7-27-93 Sample number(s): CH 23-24

LOCATION DATA

State: AZ County: Cochise Township: 165 Range: 30E Section: 33Latitude: N315932 Longitude: W1091713 Elevation (ft): 66307.5' or 15' Quadrangle Map Name: Rustler Park Scale: 7.5Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ☒ Lead ☒ Mercury ___ Zinc ☒ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ☒ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ☒ Galena ☒ Marcasite ___ Sphalerite ☒
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ___ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ☒ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

E49

WATER

Are bodies of water found on or near the site? (y/n) h

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) h

Is water being produced from the feature? (y/n) h

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) h

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

5 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1,2 B = Status (Table E-2).

1,2 C = Type (Table E-3).

1,2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1 F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 8.64

Human Hazard (HH):

8 A = Commodity (Table E-1, Human column).

1,2 B = Status (Table E-2).

1,2 C = Type (Table E-3).

1,2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1 F = Access (Table 9).

HH = A x B x C x D x E x F = 13.8

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

7.2
17.3

P. 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOCManagement Unit: Chiricahua - PedregosaPrimary Name: Unnamed shaft

Alternate Name: _____

MASDB MILS Table Sequence number: NoneDate of Report: 7-27-93 Sample number(s): CH 27

LOCATION DATA

State: AZ County: Cochise Township: 16S Range: 30E Section: 32Latitude: N 31 59 22 Longitude: W 109 17 32 Elevation (ft): 6,7207.5' or 15' Quadrangle Map Name: Rustler Park Scale: 7.5Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ☒ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ☒ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ☒ Marcasite ___ Sphalerite ___

Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) h

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) h

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) h

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

5 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
1 B = Status (Table E-2).
1.2 C = Type (Table E-3).
1 D = Size (Table E-4).
1 E = Milling Method (Table E-5).
1.2 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$EH = A \times B \times C \times D \times E \times F = 7.2$

Human Hazard (HH):

8 A = Commodity (Table E-1, Human column).
1 B = Status (Table E-2).
1.2 C = Type (Table E-3).
1 D = Size (Table E-4).
1 E = Milling Method (Table E-5).
1.8 F = Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 17.3$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20
Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

3.5/6.2

P. 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Chiricahua - Pedregosa

Primary Name: Unknown

Alternate Name: _____

MASDB MILS Table Sequence number: 0040030557

Date of Report: 7-27-93 Sample number(s): CH 1-4

LOCATION DATA

State: AZ County: Cochise Township: 16S Range: 29E Section: 2

Latitude: N 32 04 30 Longitude: W 109 21 54 Elevation (ft): 5,880

7.5' or 15' Quadrangle Map Name: Cochise Head Scale: 7.5

Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ___ Zinc ___ Other X

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground X Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone X Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft 2 Glory Hole ___ Small Pit or Trench (< 10 ft) 1
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed X Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall X Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

E53

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

2 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1.2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.0 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 3.46

Human Hazard (HH):

2 A = Commodity (Table E-1, Human column).

1.2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.8 F = Access (Table 9).

HH = A x B x C x D x E x F = 6.2

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is C.

¹Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Chiricahua - Pedregosa

Primary Name: Unnamed Decline/Shaft

Alternate Name: _____

MASDB MILS Table Sequence number: None

Date of Report: 7-30-93 Sample number(s): CH 161-162

LOCATION DATA

State: AZ County: Cochise Township: 17S Range: 30E Section: 24

Latitude: N315630 Longitude: W1091324 Elevation (ft): 5760

7.5' or 15' Quadrangle Map Name: Porter Scale: 7.5

Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ___ Zinc ___ Other X

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect X Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X

Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit ___ Decline 1 Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

ESS

3.5/5.8

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☒

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

2 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.2 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

'EH = A x B x C x D x E x F = 3.5

Human Hazard (HH):

4 A = Commodity (Table E-1, Human column).

1 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1 F = Access (Table 9).

'HH = A x B x C x D x E x F = 5.8

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is C.

Within a table, take only the highest value as the total value for that table.

3.1
/4,3
P. 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Chiricahua-Pedregosa

Primary Name: Chiricahua Mine

Alternate Name: _____

MASDB MILS Table Sequence number: 0040030054

Date of Report: 7-28-93 Sample number(s): CH 87-92

LOCATION DATA

State: AZ County: Cochise Township: 17S Range: 30W Section: 14

Latitude: N315713 Longitude: W1091454 Elevation (ft): 6180

7.5' or 15' Quadrangle Map Name: Portal Scale: 2.5

Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ☒ Lead ___ Mercury ___ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground ☒ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ☒ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill ___ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit ☒ Decline ___ Shaft ☒ Glory Hole ☒ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ☒ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ☒ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

Approx. 6,000 ST of dump

EST

WATER

Are bodies of water found on or near the site? (y/n) h

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) h

Is water being produced from the feature? (y/n) h

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☒ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) h

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☒

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other old mill site
Brick Foundation

HAZARD CALCULATIONS

Environmental Hazard (EH):

- 1 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
1.2 B = Status (Table E-2).
1.2 C = Type (Table E-3).
1.2 D = Size (Table E-4).
1.8 E = Milling Method (Table E-5).
1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$^1EH = A \times B \times C \times D \times E \times F = \underline{3.1}$$

Human Hazard (HH):

- 1 A = Commodity (Table E-1, Human column).
1.2 B = Status (Table E-2).
1.2 C = Type (Table E-3).
1.2 D = Size (Table E-4).
1.8 E = Milling Method (Table E-5).
1.4 F = Access (Table 9).

$$^1HH = A \times B \times C \times D \times E \times F = \underline{4.3}$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is C.

¹Within a table, take only the highest value as the total value for that table.

1.7/9.3

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Chiricahua - Padregos

Primary Name: Unnamed Prospects

Alternate Name: _____

MASDB MILS Table Sequence number: 0040030256

Date of Report: 7-30-93 Sample number(s): _____

LOCATION DATA

State: AZ County: Cochise Township: 17S Range: 31E Section: 20

Latitude: N 315610 Longitude: W 109 11 26 Elevation (ft): 5,450

7.5' or 15' Quadrangle Map Name: Porta Scale: 2.5

Mining or Mineral District: California

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ___ Zinc ___ Other X

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground X Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill ___ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X

Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone X Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) 2

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

E59

WATER

Are bodies of water found on or near the site? (y/n) ✓

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) ✓

Is water being produced from the feature? (y/n) ✓

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ✓

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ✓

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) h

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

1 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0
 $EH = A \times B \times C \times D \times E \times F = 1.23$

Human Hazard (HH):

3 A = Commodity (Table E-1, Human column).
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.8 F = Access (Table 9).
 $HH = A \times B \times C \times D \times E \times F = 9.3$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is C.

¹Within a table, take only the highest value as the total value for that table.

APPENDIX E

DOCUMENTATION FOR DERIVATION OF EH AND HH VALUES

DRAGOON

DRAGOON MOUNTAINS

<u>Name</u>	<u>EH no.</u>	<u>HH no.</u>	<u>Priority Catagory</u>	<u>Page</u>
1. Middlemarch Mine	53.2	120	A	E63
2. Seneca Mine	20.8	46.7		E65
3. San Juan Mine	20.2	54.4		E67
4. Standard Tungsten	17.3	51.8	B	E69
5. Moonlight Mine	17.3	46.7		E71
6. Festerling Mine	17.3	46.7		E73
7. Cobre Loma Mine	17.3	46.7		E75
8. Muheim Mine	17.3	46.7		E77
9. Naoe workings	17.3	46.7		E79
10. Buena Vista Mine	17.3	46.7		E81
11. Abril Mine	14.4	41.5		E83
12. Christmas prospect	14.4	28.8		E85
13. St. Francis Mine	12.5	28.0		E87
14. Jordan Canyon prospects	12.5	28.0		E89
15. Gordon Spring prospects	10.4	31.1		E91
16. Sala Ranch prospects	10.4	28.0		E93
17. Unnamed workings	10.4	28.0		E95
18. Unnamed workings	10.4	28.0		E97
19. Unnamed shafts	10.4	28.0		E99
20. "The pit" prospect	10.4	28.0		E101
21. Emma Adit/unnamed adit	8.7	24.9		E103
22. Ella prospect	8.7	13.0		E105

E62

DRAGOON MOUNTAINS-continued

<u>Name</u>	<u>EH no.</u>	<u>HH no.</u>	<u>Priority Catagory</u>	<u>Page</u>
23. Unnamed adit	8.6	23.3	B	E107
24. Unnamed adit	8.6	23.3		E109
25. Unnamed shaft	1.4	2.6	C	E111
26. Unnamed shaft	1.4	2.6		E113
27. McDaniel's Cut prospect	1.4	2.6		E115

53.2/120

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragoon
 Primary Name: Middle March Mine
 Alternate Name: Missouri Mine

MASDB MILS Table Sequence number: _____

Date of Report: 8-13-93 Sample number(s): DR 276-283

LOCATION DATA

State: AZ County: Cochise Township: 18S Range: 23E Section: 12
 Latitude: N315252 Longitude: W1095653 Elevation (ft): 5,500
 7.5' or 15' Quadrangle Map Name: Cochise Stronghold Scale: 7.5
 Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ☒ Lead ___ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ☒ Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ___ Small to Medium (10,000 to 250,000 st) ☒

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
 Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ☒
 Jig Plant ___ Retort ___ No Mill ___ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ☒ Galena ___ Marcasite ___ Sphalerite ☒
 Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
 Other FeOx ☒

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
 Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ☒ Shaft ☒ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
 Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
 Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
 Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
 Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ___ Partly Concealed ___
 Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
 Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
 Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft) About 11,000 tons of Tailings

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream River Pond Intermittent Stream X Lake Bay

Other

Is water present at the feature? (y/n) X

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing X Filled Partly Filled X Flowing Intermittent

If water is present, what color is it?:

Brown Green Yellow Yellow/orange Orange Gray/black

Other color

MACHINERY

Is machinery present at the site? (y/n) X

Location of Machinery:

Inside Building Outside Building X No Building, Other Location

Type of Machinery:

Flotation Cell Retort Stamp Mill Crusher X Ball or Rod Mill X

Amalgamation Equipment Arrastre Ore Bins Tanks X Other X

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location

ACCESS

Access is by:

Maintained Road 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site Trail or undrivable Road Cross-country

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks X Headframes Tramways Bags Scrap Metal X

Trestles Wooden Structures X Overhead Cables Powerlines

Power Substations Transformers Chemicals Other X

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2 B = Status (Table E-2).

1,2 C = Type (Table E-3).

1,4 D = Size (Table E-4).

2,2 E = Milling Method (Table E-5).

1,2 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

'EH = A x B x C x D x E x F = 53.2

Human Hazard (HH):

2 A = Commodity (Table E-1, Human column).

2 B = Status (Table E-2).

1,2 C = Type (Table E-3).

1,4 D = Size (Table E-4).

2,2 E = Milling Method (Table E-5).

1,8 F = Access (Table 9).

'HH = A x B x C x D x E x F = 120

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

¹Within a table, take only the highest value as the total value for that table.

E64

20.8
16.7

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragoon

Primary Name: Seneca Mine

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 8-12-93 Sample number(s): DR 121-129

LOCATION DATA

State: AZ County: Cochise Township: 175 Range: 23E Section: 1911

Latitude: N315754 Longitude: W1095857 Elevation (ft): 5,900

7.5' or 15' Quadrangle Map Name: Cochise Stronghold Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☐

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☐ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☒ Galena ☒ Marcasite ☐ Sphalerite ☒
Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 4 Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☒ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☒ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length x Width x Height

EGS

WATER

Are bodies of water found on or near the site? (y/n) h

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) h

Is water being produced from the feature? (y/n) h

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) h

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☒

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6. A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2. B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1. E = Milling Method (Table E-5).

1.2 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 20.8

Human Hazard (HH):

9. A = Commodity (Table E-1, Human column).

2. B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1. E = Milling Method (Table E-5).

1.8 F = Access (Table 9).

HH = A x B x C x D x E x F = 46.7

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

20.7 / 11.4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragon
Primary Name: San Juan Mine
Alternate Name: Sulphide Adit, Silver Adit, Mann Adit
MASDB MILS Table Sequence number: _____
Date of Report: 8-12-93 Sample number(s): DR 195-201, 205-222

LOCATION DATA

State: AZ County: Cochise Township: 18S Range: 23E Section: 10
Latitude: N 31 52 59 Longitude: W 109 58 57 Elevation (ft): _____
7.5' or 15' Quadrangle Map Name: Cochise Stronghold Scale: 7.5
Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ☒ Explored Prospect ___ Raw Prospect ___ Developed Prospect ___
Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___
Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___
No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ___ Small to Medium (10,000 to 250,000 st) ☒
Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___
Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ☒ Galena ☒ Marcasite ___ Sphalerite ☒
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 5 Decline ___ Shaft 2 Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other ___

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ☒ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other ___

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E67

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream River Pond Intermittent Stream X Lake Bay

Other

Is water present at the feature? (y/n) X

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing X Filled Partly Filled X Flowing Intermittent

If water is present, what color is it?:

Brown Green Yellow Yellow/orange Orange Gray/black

Other color

MACHINERY

Is machinery present at the site? (y/n)

Location of Machinery:

Inside Building Outside Building No Building, Other Location

Type of Machinery:

Flotation Cell Retort Stamp Mill Crusher Ball or Rod Mill

Amalgamation Equipment Arrastre Ore Bins Tanks Other Rail

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n)

If present, give type and location

ACCESS

Access is by:

Maintained Road 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site Trail or undrivable Road Cross-country

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks Headframes Tramways Bags Scrap Metal

Trestles Wooden Structures Overhead Cables Powerlines

Power Substations Transformers Chemicals Other

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.4 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 20.2

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).

2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.4 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.8 F = Access (Table 9).

HH = A x B x C x D x E x F = 54.4

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

17.3 / 51.8

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragon
Primary Name: Standard Tungsten
Alternate Name: *

MASDB MILS Table Sequence number: _____

Date of Report: 8-13-93 Sample number(s): DR 300-315

LOCATION DATA

State: AZ County: Cochise Township: 18S Range: 23E Section: 13, 23, 24
Latitude: N 31 52 46 Longitude: W 109 57 22 Elevation (ft): 5,800
7.5' or 15' Quadrangle Map Name: Black Diamond PK. Scale: 7.5
Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☒ Copper ☐ Lead ☒ Mercury ☒ Zinc ☒ Other ☐

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☐ Marcasite ☐ Sphalerite ☐
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☒ Marble ☒ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ☐ Shaft ☒ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

EE69

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☒ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2 B = Status (Table E-2).

1,2 C = Type (Table E-3).

1,2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1 F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 17.3$$

Human Hazard (HH):

2 A = Commodity (Table E-1, Human column).

2 B = Status (Table E-2).

1,2 C = Type (Table E-3).

1,2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

2 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 51.8$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

17.3
46.7

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragoon
Primary Name: Moonlight Mine
Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 8-16-93 Sample number(s): DR 355-363

LOCATION DATA

State: AZ County: Cochise Township: 18S Range: 23E Section: 24
Latitude: N 31 5 103 Longitude: W 109 56 31 Elevation (ft): 6,640
7.5' or 15' Quadrangle Map Name: Black Diamond PR Scale: 7.5
Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ☒ Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground ☒ Mineral Location ___
Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___
No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___
Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___
Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ☒ Galena ☒ Marcasite ___ Sphalerite ☒
Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) 1
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) n

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

171

WATER

Are bodies of water found on or near the site? (y/n) h

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) h

Is water being produced from the feature? (y/n) h

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) h

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other Rail

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2 B = Status (Table E-2).

1,2 C = Type (Table E-3).

1,2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1 F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 17.3

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).

2 B = Status (Table E-2).

1,2 C = Type (Table E-3).

1,2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1,8 F = Access (Table 9).

HH = A x B x C x D x E x F = 46.7

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E72

17.3 / 46.7

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragoon
Primary Name: Festerling Mine
Alternate Name: _____
MASDB MILS Table Sequence number: _____
Date of Report: 8-13-93 Sample number(s): DR 316-326
LOCATION DATA
State: AZ County: Cochise Township: 18S Range: 23E Section: 24
Latitude: N 31 51 35 Longitude: W 109 56 42 Elevation (ft): 6,000
7.5' or 15' Quadrangle Map Name: Black Diamond PK. Scale: 7.5
Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ___ Lead ☒ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ☒ Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft 4 Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E73

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream River Pond Intermittent Stream X Lake Bay

Other

Is water present at the feature? (y/n) h

Is water being produced from the feature? (y/n) h

If water is present, how does it occur?:

Standing Filled Partly Filled Flowing Intermittent

If water is present, what color is it?:

Brown Green Yellow Yellow/orange Orange Gray/black

Other color

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building Outside Building No Building, Other Location

Type of Machinery:

Flotation Cell Retort Stamp Mill Crusher Ball or Rod Mill

Amalgamation Equipment Arrastre Ore Bins Tanks Other

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location

ACCESS

Access is by:

Maintained Road 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site Trail or undrivable Road Cross-country

There is a habitation < 1/2 mi from the site (y/n) h

OTHER

Are any of the following other features present?:

Drums or Tanks Headframes Tramways Bags Scrap Metal

Trestles Wooden Structures Overhead Cables Powerlines

Power Substations Transformers Chemicals Other

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 17.3$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 46.7$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

17.3/46.7

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: DragoonPrimary Name: Cobre Loma Mine

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 8-13-93 Sample number(s): DR 246-250

LOCATION DATA

State: AZ County: Cochise Township: 18S Range: 23E Section: 11Latitude: N 31 53 28 Longitude: W 109 57 47 Elevation (ft): 5,8407.5' or 15' Quadrangle Map Name: Cochise Stronghold Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ☒ Lead ___ Mercury ☒ Zinc ___ Other ___

Status of Operation:

Past Producer ☒ Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ☒ Galena ___ Marcasite ___ Sphalerite ☒Pyrite ☒ Pyrrhotite ☒ Stibnite ___ Other sulfide ___ Limonite ___

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E75

WATER

Are bodies of water found on or near the site? (y/n) h

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) X

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☒ Filled ☐ Partly Filled ☒ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 17.3$$

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).

2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.8 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 46.7$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

17.3
46.7

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragoon
Primary Name: Muhlen Mine
Alternate Name: _____
MASDB MILS Table Sequence number: _____
Date of Report: 8-12-93 Sample number(s): DR 226-239
LOCATION DATA
State: AZ County: Cochise Township: 18S Range: 23E Section: 10
Latitude: N 31 53 02 Longitude: W 109 58 37 Elevation (ft): 6,800
7.5' or 15' Quadrangle Map Name: Cochise Stronghold Scale: 7.5
Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ___ Lead ☒ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ☒ Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground ☒ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) 1
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ☒ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E77

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) X

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location X

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other Junked Car

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other Rail

HAZARD CALCULATIONS

Environmental Hazard (EH):

- 6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 17.3$$

Human Hazard (HH):

- 7 A = Commodity (Table E-1, Human column).
 2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.8 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 46.7$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

E78

17.3/46.7

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Draoon

Primary Name: Nae workings

Alternate Name: Good Hope Mine

MASDB MILS Table Sequence number: _____

Date of Report: 8-12-93 Sample number(s): DR 111-120

LOCATION DATA

State: AZ County: Cochise Township: 17S Range: 23E Section: 9, 16

Latitude: N315748 Longitude: W1100009 Elevation (ft): 6,300

7.5' or 15' Quadrangle Map Name: KNOB Hill Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ___ Lead ☒ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ☒ Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground ☒ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill ___ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ☒ Galena ☒ Marcasite ___ Sphalerite ☒

Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ☒ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 4 Decline ___ Shaft 3 Glory Hole ___ Small Pit or Trench (< 10 ft) 2

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E79

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) X

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location X

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other X

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways X Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures X Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other X

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 17.3

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).

2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.8 F = Access (Table 9).

HH = A x B x C x D x E x F = 46.7

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

17.3/46.7

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragoon Mountains

Primary Name: Buena Vista Mine

Alternate Name: _____

MASDB MILS Table Sequence number: 0040030107

Date of Report: 8-11-93 Sample number(s): DR 80-91

LOCATION DATA

State: AZ County: Cochise Township: 17S Range: 23E Section: 8

Latitude: N 315806 Longitude: W 1100113 Elevation (ft): 5,480

7.5' or 15' Quadrangle Map Name: Knob Hill Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) 2
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) h

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) X

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☒ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) h

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2 B = Status (Table E-2).

1,2 C = Type (Table E-3).

1,2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$EH = A \times B \times C \times D \times E \times F = 12.3$

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).

2 B = Status (Table E-2).

1,2 C = Type (Table E-3).

1,2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1,8 F = Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 46.7$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

14.4/41.5

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOCManagement Unit: DragoonPrimary Name: April Mine

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 8-12-93 Sample number(s): DR 151-167

LOCATION DATA

State: AZ County: Cochise Township: 17S Range: 23E Section: 34Latitude: N315434 Longitude: W1095935 Elevation (ft): 6,6007.5' or 15' Quadrangle Map Name: Cochise Stronghold Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☐ Zinc ☒ Other ☐

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐Large (over 1,000,000 st) ☐

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
 Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
 Jig Plant ☐ Retort ☐ No Mill ☐ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☒ Galena ☒ Marcasite ☐ Sphalerite ☒
 Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐
 Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☒ Marble ☐ Micrite ☐ Sparite ☐
 Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ☒ Shaft ☒ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐
 Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
 Cistern ☐ Solution Mining Well ☐ Mine Dump ☒ Mill Tailings ☐
 Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
 Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ☐ Partly Concealed ☐
 Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
 Unstable Wall ☒ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
 Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft) over 3,000 tons combined dumpsLength ☐ x Width ☐ x Height ☐

E83

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream River Pond Intermittent Stream X Lake Bay

Other

Is water present at the feature? (y/n) X

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing X Filled Partly Filled X Flowing Intermittent

If water is present, what color is it?:

Brown Green Yellow Yellow/orange Orange Gray/black

Other color

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building Outside Building No Building, Other Location

Type of Machinery:

Flotation Cell Retort Stamp Mill Crusher Ball or Rod Mill

Amalgamation Equipment Arrastre Ore Bins Tanks Other

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location

ACCESS

Access is by:

Maintained Road 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site Trail or undrivable Road Cross-country

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks Headframes Tramways Bags Scrap Metal

Trestles Wooden Structures Overhead Cables Powerlines

Power Substations Transformers Chemicals Other

HAZARD CALCULATIONS

Environmental Hazard (EH):

5 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
2 B = Status (Table E-2).
1,4 C = Type (Table E-3).
1,4 D = Size (Table E-4).
1 E = Milling Method (Table E-5).
1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 14.4$$

Human Hazard (HH):

8 A = Commodity (Table E-1, Human column).
2 B = Status (Table E-2).
1,2 C = Type (Table E-3).
1,2 D = Size (Table E-4).
1 E = Milling Method (Table E-5).
1,8 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 41.5$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

E84

14.4/28.8

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragoon

Primary Name: Christmas Prospect

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 8-13-93 Sample number(s): DR 297

LOCATION DATA

State: AZ County: Cochise Township: 18S Range: 23E Section: 13

Latitude: N 31 52 08 Longitude: W 109 56 53 Elevation (ft): 5,720

7.5' or 15' Quadrangle Map Name: Cochise Stronghold Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ☒ Lead ___ Mercury ___ Zinc ___ Other ___

Status of Operation:

Past Producer ☒ Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ☒ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) n

Mark all conditions that apply:

Open to Entry ___ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

1385

WATER

Are bodies of water found on or near the site? (y/n) ✓

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) ✓

Is water being produced from the feature? (y/n) ✓

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ✓

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ✓

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☒ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- 5 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 2 B = Status (Table E-2).
 1, 2 C = Type (Table E-3).
 1, 2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1 F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0
 $EH = A \times B \times C \times D \times E \times F = 14.4$

Human Hazard (HH):

- 5 A = Commodity (Table E-1, Human column).
 2 B = Status (Table E-2).
 1, 2 C = Type (Table E-3).
 1, 2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 2 F = Access (Table 9).
 $HH = A \times B \times C \times D \times E \times F = 28.8$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

12.5/28.0

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragoon

Primary Name: St. Francis Mine

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 8-12-93 Sample number(s): DR 130-149

LOCATION DATA

State: AZ County: Cochise Township: 12S Range: 23E Section: 13, 14

Latitude: N 31 57 38 Longitude: W 109 57 52 Elevation (ft): 5,400

7.5' or 15' Quadrangle Map Name: Cochise Stronghold Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ☒ Galena ☒ Marcasite ___ Sphalerite ☒

Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒

Other FeOx ☒

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 4 Decline ___ Shaft 5 Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) h

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) X

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☒ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color clear

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) h

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1,2 B = Status (Table E-2).
 1,2 C = Type (Table E-3).
 1,2 D = Size (Table E-4).
 1,2 E = Milling Method (Table E-5).
 1,2 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 12.5$$

Human Hazard (HH):

7 A = Commodity (Table E-1, Human column).
 1,2 B = Status (Table E-2).
 1,2 C = Type (Table E-3).
 1,2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1,8 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 28.0$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

12.5/28.0

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragoon
Primary Name: Jordan Canyon Prospects
Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 8-12-93 Sample number(s): DR 51-75

LOCATION DATA

State: AZ County: Cochise Township: 16S Range: 23E Section: 32
Latitude: N315933 Longitude: W1100125 Elevation (ft): 5,200
7.5' or 15' Quadrangle Map Name: Knob Hill Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ☒ Lead ___ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground ☒ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ___ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ☒ Galena ___ Marcasite ___ Sphalerite ☒
Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft 6 Glory Hole ___ Small Pit or Trench (< 10 ft) 1
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E89

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) h

Is water being produced from the feature? (y/n) h

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) h

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.2 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0
 $EH = A \times B \times C \times D \times E \times F = 12.5$

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.2 F = Access (Table 9).
 $HH = A \times B \times C \times D \times E \times F = 28.0$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

E90

10.4
31.1

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragoon

Primary Name: Gordon Spring Prospects

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 8-16-93 Sample number(s): DIR 449-460

LOCATION DATA

State: AZ County: Cochise Township: 18S Range: 23E Section: 22, 23

Latitude: N 31.5107 Longitude: W 109.5826 Elevation (ft): 5,360

7.5' or 15' Quadrangle Map Name: Black Diamond PK. Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ___ Lead ☒ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground ☒ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒

Other FeOx ☒

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ☒ Glory Hole ___ Small Pit or Trench (< 10 ft) ☒

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☒ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

$\begin{aligned} &A = \text{Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.} \\ &1.2 B = \text{Status (Table E-2).} \\ &1.2 C = \text{Type (Table E-3).} \\ &1.2 D = \text{Size (Table E-4).} \\ &1 E = \text{Milling Method (Table E-5).} \\ &1 F = \text{Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0} \end{aligned}$

$$EH = A \times B \times C \times D \times E \times F = 10.4$$

Human Hazard (HH):

$\begin{aligned} &9 A = \text{Commodity (Table E-1, Human column).} \\ &1.2 B = \text{Status (Table E-2).} \\ &1.2 C = \text{Type (Table E-3).} \\ &1.2 D = \text{Size (Table E-4).} \\ &1 E = \text{Milling Method (Table E-5).} \\ &2 F = \text{Access (Table 9).} \end{aligned}$

$$HH = A \times B \times C \times D \times E \times F = 31.1$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E92

10.4 / 28.0

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: _____

Primary Name: Sa/a Ranch Prospects

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 8-16-93 Sample number(s): DR 461-477

LOCATION DATA

State: AZ County: Cochise Township: 18S Range: 23E Section: 15, 22

Latitude: N 31.5241 Longitude: W 109.5952 Elevation (ft): 5,400

7.5' or 15' Quadrangle Map Name: Black Diamond PK Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ☒ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground ☒ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ___ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) 5

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) h

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) h

Is water being produced from the feature? (y/n) h

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- 6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 10.4$$

Human Hazard (HH):

- 9 A = Commodity (Table E-1, Human column).
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.8 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 28.0$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

10.4
28.0

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragon

Primary Name: Unnamed workings

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 8-16-93 Sample number(s): DR 442-448

LOCATION DATA

State: AZ County: Cochise Township: 18S Range: 24E Section: 31

Latitude: N314910 Longitude: W1095617 Elevation (ft): 5,460

7.5' or 15' Quadrangle Map Name: Black Diamond Peak Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft 3 Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

EQS

WATER

Are bodies of water found on or near the site? (y/n) h

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) h

Is water being produced from the feature? (y/n) h

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- 6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1,2 B = Status (Table E-2).
 1,2 C = Type (Table E-3).
 1,2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1 F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0
 $EH = A \times B \times C \times D \times E \times F = 10.4$

Human Hazard (HH):

- 9 A = Commodity (Table E-1, Human column).
 1,2 B = Status (Table E-2).
 1,2 C = Type (Table E-3).
 1,2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1,2 F = Access (Table 9).
 $HH = A \times B \times C \times D \times E \times F = 28.0$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

10.4/28.0

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragoon

Primary Name: Unnamed workings

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 8-13-93 Sample number(s): DR 335-341

LOCATION DATA

State: AZ County: Cochise Township: 18S Range: 23E Section: 24

Latitude: N 31.5107 Longitude: W 109.5649 Elevation (ft): 6,800

7.5' or 15' Quadrangle Map Name: Black Diamond Peak Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ☒ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground ☒ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft 3 Glory Hole ___ Small Pit or Trench (< 10 ft) 1
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E97

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1.2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1 F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 10.4

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).

1.2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.8 F = Access (Table 9).

HH = A x B x C x D x E x F = 28.0

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

10.4/
28.0

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragoon
Primary Name: Unnamed Sharts
Alternate Name: _____
MASDB MILS Table Sequence number: _____
Date of Report: 8-13-93 Sample number(s): DR 329-334

LOCATION DATA

State: AZ County: Cochise Township: 18S Range: 23E Section: 24
Latitude: N 31 51 17 Longitude: W 109 56 47 Elevation (ft): 6,250
7.5' or 15' Quadrangle Map Name: Black Diamond PK. Scale: 7.5
Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ☒ Lead ___ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___
Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___
Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___
No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___
Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___
Large (over 1,000,000 st) ___

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ___ Shaft ☒ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

667

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- 6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0
 $EH = A \times B \times C \times D \times E \times F = 10.4$

Human Hazard (HH):

- 9 A = Commodity (Table E-1, Human column).
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.8 F = Access (Table 9).
 $HH = A \times B \times C \times D \times E \times F = 28.0$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E100

10.4/28.0

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragoon
Primary Name: "The Pit" prospect
Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 8-13-93 Sample number(s): DR 262-268

LOCATION DATA

State: AZ County: Cochise Township: 18S Range: 23E Section: 12
Latitude: N 31 52 56 Longitude: W 109 57 07 Elevation (ft): 5,760
7.5' or 15' Quadrangle Map Name: Cochise Stronghold Scale: 7.5
Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ☒ Lead ___ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ☒ Underground ___ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) 2 Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E101

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☒ Filled ☐ Partly Filled ☒ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0
 $EH = A \times B \times C \times D \times E \times F = 10.4$

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.8 F = Access (Table 9).
 $HH = A \times B \times C \times D \times E \times F = 28.0$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

E102

8.7
24.9

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragoon
Primary Name: EMMA ADIT / unnamed ADIT
Alternate Name: _____

MASDB MILS Table Sequence number: _____
Date of Report: 8-13-93 Sample number(s): DR 271-275

LOCATION DATA

State: AZ County: Cochise Township: 18S Range: 23E Section: 12
Latitude: N315244 Longitude: W1095711 Elevation (ft): 5,800
7.5' or 15' Quadrangle Map Name: Cochise Stronghold Scale: 7.5
Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ☒ Lead ___ Mercury ___ Zinc ☒ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___
Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___
No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___
Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___
Large (over 1,000,000 st) ___

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

103

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

5 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 8.7

Human Hazard (HH):

8 A = Commodity (Table E-1, Human column).
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.2 F = Access (Table 9).

HH = A x B x C x D x E x F = 24.9

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

E104

8.7
/ 13.0

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Draoon
Primary Name: Ella prospect
Alternate Name: _____
MASDB MILS Table Sequence number: _____
Date of Report: 8-13-93 Sample number(s): DR 256-258

LOCATION DATA

State: AZ County: Cochise Township: 18S Range: 23E Section: 11
Latitude: N 31 53 12 Longitude: W 109 57 32 Elevation (ft): 5,800
7.5' or 15' Quadrangle Map Name: Cochise Stronghold Scale: 7.5
Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ☒ Lead ___ Mercury ___ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ☒ Developed Prospect ___
Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground ☒ Mineral Location ___
Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___
No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___
Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___
Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ☒ Glory Hole ___ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

105

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- \sum A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.2 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 8.7$$

Human Hazard (HH):

- \sum A = Commodity (Table E-1, Human column).
 1 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.8 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 13.0$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E106

8.6/23.3

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragoon

Primary Name: Unnamed Adit

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 8-13-93 Sample number(s): DR 345-347

LOCATION DATA

State: AZ County: Cochise Township: 18S Range: 23E Section: 23

Latitude: N 31 51 01 Longitude: W 109 57 31 Elevation (ft): 6,080

7.5' or 15' Quadrangle Map Name: Black Diamond PK. Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ___ Lead ___ Mercury ___ Zinc ☒ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ☒ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

6107

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

- 5 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1 B = Status (Table E-2).
 1,2 C = Type (Table E-3).
 1,2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 8.6$$

Human Hazard (HH):

- 7 A = Commodity (Table E-1, Human column).
 1 B = Status (Table E-2).
 1,2 C = Type (Table E-3).
 1,2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1,2 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 23.3$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E/08

8.6
23.3

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragoon
Primary Name: Unnamed Adit
Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 8-12-93 Sample number(s): DR 127-184

LOCATION DATA

State: AZ County: Cochise Township: 185 Range: 23E Section: 3
Latitude: N 31 53 31 Longitude: W 109 58 34 Elevation (ft): 6,600
7.5' or 15' Quadrangle Map Name: Cochise Stronghold Scale: 7.5
Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ☒ Zinc ☒ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ☒ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground ☒ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ☒ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other ___

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other ___

Size of Feature (ft)

Length ___ x Width ___ x Height ___

109

WATER

Are bodies of water found on or near the site? (y/n) h

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) h

Is water being produced from the feature? (y/n) h

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) h

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1 B = Status (Table E-2).
 1/2 C = Type (Table E-3).
 1/2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 8.6$$

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).
 1 B = Status (Table E-2).
 1/2 C = Type (Table E-3).
 1/2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1/8 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 23.3$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

1.4
2.6

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragoon

Primary Name: Unnamed Shert

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 8-16-93 Sample number(s): DR 353

LOCATION DATA

State: AZ County: Cochise Township: 18S Range: 23E Section: 25

Latitude: N 31 50 13 Longitude: W 109 56 42 Elevation (ft): 5,860

7.5' or 15' Quadrangle Map Name: Black Diamond PK Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ___ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ☒ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ☒ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

B = Status (Table E-2).

1,2 C = Type (Table E-3).

1,2 D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 1.4

Human Hazard (HH):

A = Commodity (Table E-1, Human column).

B = Status (Table E-2).

1,2 C = Type (Table E-3).

1,2 D = Size (Table E-4).

E = Milling Method (Table E-5).

1,2 F = Access (Table 9).

HH = A x B x C x D x E x F = 2.6

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is C.

Within a table, take only the highest value as the total value for that table.

E112

1.4/0.6

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: DragoonPrimary Name: Unnamed Shaft

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 8-13-93 Sample number(s): DR 269

LOCATION DATA

State: AZ County: Cochise Township: 18S Range: 23E Section: 11, 12Latitude: N 31 52 48 Longitude: W 109 57 29 Elevation (ft): 6,0007.5' or 15' Quadrangle Map Name: Cochise Stronghold Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ___ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ☒ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒Other FeOx ☒

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ☒ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E113

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- / A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 / B = Status (Table E-2).
 / 2 C = Type (Table E-3).
 / 2 D = Size (Table E-4).
 / E = Milling Method (Table E-5).
 / F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = \underline{1.4}$$

Human Hazard (HH):

- / A = Commodity (Table E-1, Human column).
 / B = Status (Table E-2).
 / 2 C = Type (Table E-3).
 / 2 D = Size (Table E-4).
 / E = Milling Method (Table E-5).
 / 8 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = \underline{2.6}$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is C.

¹Within a table, take only the highest value as the total value for that table.

1.4/2.6

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Dragoon

Primary Name: McDaniel's Cut Prospect

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 8-13-93 Sample number(s): DR 254-255

LOCATION DATA

State: AZ County: Cochise Township: 18S Range: 23E Section: 11

Latitude: N31.5317 Longitude: W 109.5739 Elevation (ft): 5,768

7.5' or 15' Quadrangle Map Name: Cochise Stronghold scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ___ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ☒ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground ☒ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ☒ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ☒ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ☒ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ___ Partly Caved ☒ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- 1 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1 B = Status (Table E-2).
 1/2 C = Type (Table E-3).
 1/2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 1.4$$

Human Hazard (HH):

- 1 A = Commodity (Table E-1, Human column).
 1 B = Status (Table E-2).
 1/2 C = Type (Table E-3).
 1/2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1/8 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 2.6$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is C.

Within a table, take only the highest value as the total value for that table.

APPENDIX E

DOCUMENTATION FOR DERIVATION OF EH AND HH VALUES

GALIURO

17.3 / 20.8

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Galiuro
Primary Name: Powers Mine
Alternate Name: _____
MASDB MILS Table Sequence number: 0040090231
Date of Report: 8-5-93 Sample number(s): _____

LOCATION DATA

State: AZ County: Graham Township: 10S Range: 20E Section: 6
Latitude: N 323533 Longitude: W 1092038 Elevation (ft): 1,620
7.5' or 15' Quadrangle Map Name: Basset Peak Scale: 7.5
Mining or Mineral District: Rattlesnake

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ___ Zinc ___ Other X

Status of Operation:

Past Producer X Explored Prospect ___ Raw Prospect ___ Developed Prospect ___
Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___
Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___
No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___
Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___
Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ___ Unknown X

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft 3 Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) Y

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E119

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) h

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☒ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

5 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.2 F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

$EH = A \times B \times C \times D \times E \times F = 17.3$

Human Hazard (HH):

6 A = Commodity (Table E-1, Human column).

2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.2 F = Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 20.8$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E120

17.3 / 20.2

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Galileo
Primary Name: Long Ton Mine
Alternate Name: _____
MASDB MILS Table Sequence number: 0040090195
Date of Report: 8-5-93 Sample number(s): _____
LOCATION DATA
State: AZ County: Graham Township: 10S Range: 20E Section: 7
Latitude: N3234 36 Longitude: W1102012 Elevation (ft): 5,880
7.5' or 15' Quadrangle Map Name: Basset Peak Scale: 7.5
Mining or Mineral District: Rattlesnake

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ___ Zinc ___ Other X

Status of Operation:

Past Producer X Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground X Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) 1
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) n

Mark all conditions that apply:

Open to Entry X Partly Caved X Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) h

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) h

Is water being produced from the feature? (y/n) h

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☒ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

5 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2 B = Status (Table E-2).

1,2 C = Type (Table E-3).

1,2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1,2 F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

'EH = A x B x C x D x E x F = 17.3

Human Hazard (HH):

6 A = Commodity (Table E-1, Human column).

2 B = Status (Table E-2).

1,2 C = Type (Table E-3).

1,2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1,2 F = Access (Table 9).

'HH = A x B x C x D x E x F = 20.8

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after

category A is dealt with.

These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

12.5
18.7

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Gallardo

Primary Name: Gold Mountain Mine

Alternate Name: _____

MASDB MILS Table Sequence number: 0040090142

Date of Report: 8-5-93 Sample number(s): GA 8-21

LOCATION DATA

State: AZ County: Graham Township: 9S Range: 20E Section: 31

Latitude: N 323626 Longitude: W 1102037 Elevation (ft): 5,360

7.5' or 15' Quadrangle Map Name: Basset Peak Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill ___ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) n

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E123

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☒ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☒ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☒ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.2 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0
 'EH = A x B x C x D x E x F = 12.5

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.2 F = Access (Table 9).

'HH = A x B x C x D x E x F = 18.7

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20
 Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

10.4 / 15.6

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Galiuro
Primary Name: Sixteen-To-One Mine
Alternate Name: _____
MASDB MILS Table Sequence number: 0040090319
Date of Report: 8-5-93 Sample number(s): _____

LOCATION DATA
State: AZ County: Graham Township: 10S Range: 19E Section: 10
Latitude: N323421 Longitude: W1102253 Elevation (ft): 4200
7.5' or 15' Quadrangle Map Name: Kielberg Canyon Scale: 7.5
Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ☒ Lead ___ Mercury ___ Zinc ___ Other ☒

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground ☒ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 4 Decline ___ Shaft 3 Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E125

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream River Pond Intermittent Stream X Lake Bay

Other

Is water present at the feature? (y/n)

Is water being produced from the feature? (y/n)

If water is present, how does it occur?:

Standing Filled Partly Filled Flowing Intermittent

If water is present, what color is it?:

Brown Green Yellow Yellow/orange Orange Gray/black

Other color

MACHINERY

Is machinery present at the site? (y/n)

Location of Machinery:

Inside Building Outside Building No Building, Other Location

Type of Machinery:

Flotation Cell Retort Stamp Mill Crusher Ball or Rod Mill

Amalgamation Equipment Arrastre Ore Bins Tanks Other

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n)

If present, give type and location

ACCESS

Access is by:

Maintained Road 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site Trail or undrivable Road Cross-country

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks Headframes Tramways Bags Scrap Metal

Trestles Wooden Structures Overhead Cables Powerlines

Power Substations Transformers Chemicals Other

HAZARD CALCULATIONS

Environmental Hazard (EH):

- 5 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.2 F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0
 $EH = A \times B \times C \times D \times E \times F = 10.4$

Human Hazard (HH):

- 5 A = Commodity (Table E-1, Human column).
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.8 F = Access (Table 9).
 $HH = A \times B \times C \times D \times E \times F = 15.6$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Galluro
Primary Name: Jackson Mine & Vicinity
Alternate Name: _____
MASDB MILS Table Sequence number: 0040090181
Date of Report: 8-5-93 Sample number(s): _____

LOCATION DATA

State: AZ County: Graham Township: 11S Range: 20E Section: 9, 4, 15, 16
Latitude: N322948 Longitude: W1101849 Elevation (ft): 4,800
7.5' or 15' Quadrangle Map Name: Cherry Spring PK. Scale: 7.5
Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ☒ Lead ___ Mercury ___ Zinc ___ Other ☒

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___
Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground ☒ Mineral Location ___
Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___
No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___
Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___
Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 3 Decline ___ Shaft 8 Glory Hole ___ Small Pit or Trench (< 10 ft) 15
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream X Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) ☐

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road X Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

$\begin{matrix} 5 \\ 1.2 \end{matrix} A =$ Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 $\begin{matrix} 1.2 \\ 1.2 \end{matrix} B =$ Status (Table E-2).
 $\begin{matrix} 1.2 \\ 1.2 \end{matrix} C =$ Type (Table E-3).
 $\begin{matrix} 1.2 \\ 1.2 \end{matrix} D =$ Size (Table E-4).
 $\begin{matrix} 1 \\ 1.2 \end{matrix} E =$ Milling Method (Table E-5).
 $\begin{matrix} 1.2 \\ 1.2 \end{matrix} F =$ Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 10.4$$

Human Hazard (HH):

$\begin{matrix} 5 \\ 1.2 \end{matrix} A =$ Commodity (Table E-1, Human column).
 $\begin{matrix} 1.2 \\ 1.2 \end{matrix} B =$ Status (Table E-2).
 $\begin{matrix} 1.2 \\ 1.2 \end{matrix} C =$ Type (Table E-3).
 $\begin{matrix} 1.2 \\ 1.2 \end{matrix} D =$ Size (Table E-4).
 $\begin{matrix} 1 \\ 1.2 \end{matrix} E =$ Milling Method (Table E-5).
 $\begin{matrix} 1.2 \\ 1.2 \end{matrix} F =$ Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 10.4$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

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APPENDIX E

DOCUMENTATION FOR DERIVATION OF EH AND HH VALUES

HUACHUCA

713c

713c

HU011	N312906	W1102509	20.7	A
HU092-HU097	N312536	W1101717	20.7	A
HU258-HU269	N312416	W1102053	20.7	A
HU024, HU025	N312544	W1102246	20.7	A
HU118, HU119	N312430	W1101545	20.7	A
HU060, HU061	N312749	W1101901	20.7	A
HU037-HU044	N312516	W1102129	20.7	A
HU148-HU187	N312214	W1101739	20.7	A
HU130-HU133	N312205	W1101528	20.7	A
HU198-HU211	N312257	W1101921	17.3	B
HU098-HU109	N312444	W1101712	17.3	B
HU050-HU059	N312707	W1102004	17.3	B
HU188, HU189	N312210	W1101735	17.3	B
HU138-HU147	N312301	W1101712	17.3	B
HU228-HU232	N312405	W1101927	17.3	B
HU120-HU125	N312400	W1101449	15.6	B
HU028-HU036	N312523	W1102140	15.6	B
HU087-HU089	N312533	W1101544	12.4	B
HU194-HU196	N312203	W1101826	12.4	B
HU081-HU086	N312546	W1101536	12.4	B
HU135-HU137	N312222	W1101654	12.4	B
HU191-HU193	N312152	W1101748	12.4	B
HU126-HU128	N312230	W1101539	12.4	B
HU212-HU216	N312349	W1101854	12.4	B
HU009, HU010	N312928	W1102621	10.4	B
HU062, HU063	N312730	W1101858	10.4	B
HU134	N312204	W1101558	10.4	B
HU026, HU027	N312608	W1102225	10.4	B
HU190	N312133	W1101726	10.4	B
HU257	N312356	W1102134	08.6	B
HU064-HU071	N312726	W1101831	08.6	B
HU072-HU075	N312659	W1101702	08.6	B

E131
E133
E135
E137
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E143
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E189
E191
E193

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca
Primary Name: Arrow Group
Alternate Name: Lucky Day, East Wind
MASDB MILS Table Sequence number: 0040030695
Date of Report: 12/31/93 Sample number(s): HU 011

LOCATION DATA

State: AZ County: Cochise Township: 22S Range: 19E Section: 28
Latitude: N3129 06 Longitude: W110 25 09 Elevation (ft): 6100
7.5' or 15' Quadrangle Map Name: Huachuca Peak Scale: 24000
Mining or Mineral District: New Reef

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☐ Copper ☐ Lead ☐ Mercury ☒ Zinc ☐ Other W

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☒ Underground ☐ Surface and Underground ☐ Mineral Location ☐
Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐
No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐
Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐
Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☒ Marcasite ☐ Sphalerite ☐
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☒
Other FeOx ☐

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☐ Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) 3
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ☐ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

$EH = A \times B \times C \times D \times E \times F = 20.7$

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).

2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 46.7$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

¹Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: HuachucaPrimary Name: Tungsten ReefAlternate Name: SitruMASDB MILS Table Sequence number: 0040030202Date of Report: 12/31/96 Sample number(s): HU092-HU097

LOCATION DATA

State: AZ County: Cochise Township: 23S Range: 20E Section: 14Latitude: N31 25 36 Longitude: W110 17 17 Elevation (ft): 72407.5' or 15' Quadrangle Map Name: Miller Peak Scale: 24000Mining or Mineral District: New Reef

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☐ Copper ☐ Lead ☐ Mercury ☒ Zinc ☐ Other W

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☒ Marcasite ☐ Sphalerite ☐Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐Other FeOx ☐

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 3 Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐Large Pit (> 10 ft) 2 Quarry ☐ Placer ☐ Building ☒ Machinery ☐Cistern ☐ Solution Mining Well ☐ Mine Dump ☒ Mill Tailings ☐Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ☐ Partly Concealed ☐Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

E133

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☒ Headframes ☐ Tramways ☒ Bags ☐ Scrap Metal ☒

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

EA = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

EB = Status (Table E-2).

EC = Type (Table E-3).

ED = Size (Table E-4).

EE = Milling Method (Table E-5).

EF = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 20.7

Human Hazard (HH):

HA = Commodity (Table E-1, Human column).

HB = Status (Table E-2).

HC = Type (Table E-3).

HD = Size (Table E-4).

HE = Milling Method (Table E-5).

HF = Access (Table 9).

HH = A x B x C x D x E x F = 46.7

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Wakefield

Alternate Name: _____

MASDB MILS Table Sequence number: 0040030226

Date of Report: 12/31/93 Sample number(s): HU 258-HU269

LOCATION DATA

State: AZ County: Cochise Township: 23S Range: 20E Section: 30

Latitude: N312416 Longitude: W1102053 Elevation (ft): 6300

7.5' or 15' Quadrangle Map Name: Miller Peak Scale: 24000

Mining or Mineral District: New Reef

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer X Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite X Galena X Marcasite ___ Sphalerite ___

Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other deep shaft

Size of Feature (ft)

Length ___ x Width ___ x Height ___

135

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ___ River ___ Pond ___ Intermittent Stream ___ Lake ___ Bay ___

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ___ Filled ___ Partly Filled ___ Flowing ___ Intermittent ___

If water is present, what color is it?:

Brown ___ Green ___ Yellow ___ Yellow/orange ___ Orange ___ Gray/black ___

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ___ Outside Building ___ No Building, Other Location ___

Type of Machinery:

Flotation Cell ___ Retort ___ Stamp Mill ___ Crusher ___ Ball or Rod Mill ___

Amalgamation Equipment ___ Arrastre ___ Ore Bins ___ Tanks ___ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ___ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ___ Trail or undrivable Road ___ Cross-country ___

There is a habitation < 1/2 mi from the site (y/n) X

OTHER

Are any of the following other features present?:

Drums or Tanks ___ Headframes ___ Tramways ___ Bags ___ Scrap Metal ___

Trestles ___ Wooden Structures ___ Overhead Cables ___ Powerlines ___

Power Substations ___ Transformers ___ Chemicals ___ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Acid potential: If any indicator minerals were checked AND neutralizing how rocks are not present, F = 1.2; otherwise F = 1.0

1EH = A x B x C x D x E x F = 20.7

Human Hazard (HH):

4A = Commodity (Table E-1, Human column).

2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.8F = Access (Table 9).

1HH = A x B x C x D x E x F = 46.7

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

¹Within a table, take only the highest value as the total value for that table.

E136

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Eureka

Alternate Name: _____

MASDB MILS Table Sequence number: 0040030135

Date of Report: 12/31/93 Sample number(s): HU024, HU025

LOCATION DATA

State: AZ County: Cochise Township: 23S Range: 19E Section: 14

Latitude: N312544 Longitude: W1102246 Elevation (ft): 6600

7.5' or 15' Quadrangle Map Name: Huachuca Peak Scale: 24000

Mining or Mineral District: New Hartford

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper X Lead X Mercury ___ Zinc ___ Other Ag

Status of Operation:

Past Producer X Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide X Limonite ___

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) A/

Mark all conditions that apply:

Open to Entry ___ Partly Caved X Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E137

WATER

Are bodies of water found on or near the site? (y/n) ✓

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) ✓

Is water being produced from the feature? (y/n) ✓

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ✓

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ✓

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☒ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ✓

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1,2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 20.7

Human Hazard (HH):

8A = Commodity (Table E-1, Human column).

2B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1,2F = Access (Table 9).

HH = A x B x C x D x E x F = 41.5

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

E138

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Armistace

Alternate Name: Short

MASDB MILS Table Sequence number: 004003 0094

Date of Report: 12/31/93 Sample number(s): HU118, HU119

LOCATION DATA

State: Az County: Cochise Township: 23S Range: 20E Section: 25

Latitude: N31 24 30 Longitude: W110 15 45 Elevation (ft): 5500

7.5' or 15' Quadrangle Map Name: Miller Peak Scale: 24000

Mining or Mineral District: New Hartford

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☐ Copper ☐ Lead ☒ Mercury ☐ Zinc ☐ Other Ag

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐

Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐

Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☒ Marcasite ☐ Sphalerite ☐

Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐

Other FeOx ☐

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐

Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☐ Decline ☐ Shaft 2 Glory Hole ☐ Small Pit or Trench (< 10 ft) ☒

Large Pit (> 10 ft) 2 Quarry ☐ Placer ☐ Building ☐ Machinery ☐

Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐

Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐

Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ☐ Partly Caved ☐ Concealed ☐ Partly Concealed ☐

Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐

Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐

Foundation ☐ Prone to Wind Erosion ☐ Other shafts closed

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

E139

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1,2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 20.7

Human Hazard (HH):

8A = Commodity (Table E-1, Human column).

2B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1,2F = Access (Table 9).

HH = A x B x C x D x E x F = 41.5

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Lucky Strike

Alternate Name: _____

MASDB MILS Table Sequence number: 0040030175

Date of Report: 12/31/93 Sample number(s): HUC060, HUC061

LOCATION DATA

State: AZ County: Cochise Township: 23S Range: 20E Section: 4

Latitude: N31 27 49 Longitude: W110 19 01 Elevation (ft): 5400

7.5' or 15' Quadrangle Map Name: Miller Peak Scale: 24000

Mining or Mineral District: New Reef

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other W

Status of Operation:

Past Producer X Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground X Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena X Marcasite ___ Sphalerite ___

Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___

Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) X

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) Y

Mark all conditions that apply:

Open to Entry ___ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed X Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other shaft?

Size of Feature (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☒ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 2B = Status (Table E-2).
 1,2C = Type (Table E-3).
 1,2D = Size (Table E-4).
 1E = Milling Method (Table E-5).
 1,2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$^1EH = A \times B \times C \times D \times E \times F = 20.7$$

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).
 2B = Status (Table E-2).
 1,2C = Type (Table E-3).
 1,2D = Size (Table E-4).
 1E = Milling Method (Table E-5).
 1,4F = Access (Table 9).

$$^1HH = A \times B \times C \times D \times E \times F = 36.3$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20
 Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

¹Within a table, take only the highest value as the total value for that table.

E142

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Copper Glance

Alternate Name: _____

MASDB MILS Table Sequence number: 0040030123

Date of Report: 12/3/93 Sample number(s): HU037 - HU044

LOCATION DATA

State: AZ County: Cochise Township: 23S Range: 19E Section: 24

Latitude: N31 25 16 Longitude: W110 21 29 Elevation (ft): 7400

7.5' or 15' Quadrangle Map Name: Miller Peak Scale: 24000

Mining or Mineral District: New Hartford

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium _____ Copper ☒ Lead _____ Mercury ☒ Zinc _____ Other Ag

Status of Operation:

Past Producer ☒ Explored Prospect _____ Raw Prospect _____ Developed Prospect _____

Status Unknown _____

Type of Operation:

Surface _____ Underground ☒ Surface and Underground _____ Mineral Location _____

Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____

No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) _____

Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____

Large (over 1,000,000 st) _____

HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____
Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____
Jig Plant _____ Retort _____ No Mill ☒ Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite _____ Chalcopyrite _____ Galena ☒ Marcasite _____ Sphalerite _____
Pyrite ☒ Pyrrhotite _____ Stibnite _____ Other sulfide ☒ Limonite ☒
Other FeOx _____

Neutralizing Host Rock:

Dolomite _____ Limestone _____ Marble _____ Micrite _____ Sparite _____
Other Carbonate _____

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 5 Decline _____ Shaft 1 Glory Hole _____ Small Pit or Trench (< 10 ft) _____
Large Pit (> 10 ft) _____ Quarry _____ Placer _____ Building _____ Machinery _____
Cistern _____ Solution Mining Well _____ Mine Dump _____ Mill Tailings _____
Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile _____ Subsidence _____
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed _____ Partly Concealed _____
Collapsed _____ Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____
Unstable Wall _____ Eroded _____ Partly Eroded _____ Intact _____ Subsided _____
Foundation _____ Prone to Wind Erosion _____ Other wire _____

Size of Feature (ft)

Length _____ x Width _____ x Height _____

543

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☒ Filled ☒ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color Unknown

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☒ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 20.7

Human Hazard (HH):

7A = Commodity (Table E-1, Human column).

2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Access (Table 9).

HH = A x B x C x D x E x F = 31.1

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is A.

¹Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca
Primary Name: Tako H9
Alternate Name: Walter & Mildred
MASDB MILS Table Sequence number: 004003 0569
Date of Report: 12/31/93 Sample number(s): HU148-HU187

LOCATION DATA

State: AZ County: Cochise Township: 24S Range: 30E Section: 3
Latitude: N31 22 14 Longitude: W110 17 39 Elevation (ft): 6860
7.5' or 15' Quadrangle Map Name: Montezuma Pass Scale: 24000
Mining or Mineral District: New Hartford

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other Ag

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐
Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐
Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐
No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐
Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐
Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☒ Galena ☐ Marcasite ☐ Sphalerite ☒
Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☒ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐
Large Pit (> 10 ft) 1 Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) Y

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other wind

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

5013

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other Spring

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☒ Filled ☒ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color unknown

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☒ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

$GA =$ Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

$2B =$ Status (Table E-2).

$1,2C =$ Type (Table E-3).

$1,2D =$ Size (Table E-4).

$1E =$ Milling Method (Table E-5).

$1,2F =$ Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$EH = A \times B \times C \times D \times E \times F = 20.7$

Human Hazard (HH):

$HA =$ Commodity (Table E-1, Human column).

$2B =$ Status (Table E-2).

$1,2C =$ Type (Table E-3).

$1,2D =$ Size (Table E-4).

$1E =$ Milling Method (Table E-5).

$1,2F =$ Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 31.1$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

¹Within a table, take only the highest value as the total value for that table.

9413

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: HuachucaPrimary Name: MorganAlternate Name: NuggetMASDB MILS Table Sequence number: 004003 0187Date of Report: 12/31/93 Sample number(s): HU130 - HU133

LOCATION DATA

State: AZ County: Cochise Township: 245 Range: 20E Section: 1Latitude: N31 22 05 Longitude: W110 15 28 Elevation (ft): 60507.5' or 15' Quadrangle Map Name: Montezuma Pass Scale: 24000Mining or Mineral District: New Reef

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☐ Copper ☐ Lead ☐ Mercury ☐ Zinc ☐ Other Ag

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☒ Galena ☒ Marcasite ☐ Sphalerite ☐Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐Other FeOx ☐

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☐ Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐Other winzes

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) Y

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐Foundation ☐ Prone to Wind Erosion ☐ Other winzes, shaft

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

E147

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1,2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$^1EH = A \times B \times C \times D \times E \times F = \underline{20.7}$$

Human Hazard (HH):

5A = Commodity (Table E-1, Human column).

2B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1,2F = Access (Table 9).

$$^1HH = A \times B \times C \times D \times E \times F = \underline{25.9}$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

¹Within a table, take only the highest value as the total value for that table.

8417

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Cave

Alternate Name: Cave Creek

MASDB MILS Table Sequence number: 0040030048

Date of Report: 12/31/96 Sample number(s): HU/98-HU211

LOCATION DATA

State: AZ County: Cochise Township: 23.5 Range: 20E Section: 33

Latitude: N31 22 57 Longitude: W110 19 21 Elevation (ft): 6230

7.5' or 15' Quadrangle Map Name: Miller Peak Scale: 24000

Mining or Mineral District: New Hartford

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other Ag

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐

Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐

Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☒ Galena ☒ Marcasite ☐ Sphalerite ☒

Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☒

Other FeOx ☐

Neutralizing Host Rock:

Dolomite ☐ Limestone ☒ Marble ☐ Micrite ☐ Sparite ☐

Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 4 Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) 1

Large Pit (> 10 ft) 2 Quarry ☐ Placer ☐ Building ☐ Machinery ☐

Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐

Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☒

Other stope, winzes

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐

Collapsed ☐ Partly Collapsed ☒ Standing ☐ Empty ☐ Rotten Cribbing ☒

Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☒

Foundation ☐ Prone to Wind Erosion ☐ Other stope, winzes

Size of Feature (ft)

Length x Width x Height

6413

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) Y

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) Y

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) Y

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) Y

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 17.3

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).

2B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1,2F = Access (Table 9).

HH = A x B x C x D x E x F = 46.7

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

150

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Power claim

Alternate Name: Anozira

MASDB MILS Table Sequence number: 0040030019

Date of Report: 12/31/93 Sample number(s): HU098-HU109

LOCATION DATA

State: Az County: Cochise Township: 235 Range: 20E Section: 23

Latitude: N312444 Longitude: W1101712 Elevation (ft): 6850

7.5' or 15' Quadrangle Map Name: Miller Peak Scale: 24000

Mining or Mineral District: New Reef

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper ☐ Lead ☒ Mercury ☒ Zinc ☒ Other Ag

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐

Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐

Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☐ Marcasite ☐ Sphalerite ☐

Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☒

Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☒ Marble ☐ Micrite ☐ Sparite ☐

Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 3 Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐

Large Pit (> 10 ft) ☒ Quarry ☐ Placer ☐ Building ☐ Machinery ☐

Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐

Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐

Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐

Collapsed ☒ Partly Collapsed ☒ Standing ☐ Empty ☐ Rotten Cribbing ☐

Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐

Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

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WATER

Are bodies of water found on or near the site? (y/n) Δ

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) Δ

Is water being produced from the feature? (y/n) Δ

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) Δ

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) Δ

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) Y

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 17.3

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).

2B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1,8F = Access (Table 9).

HH = A x B x C x D x E x F = 46.7

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

2512

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: James Group

Alternate Name: Emerald, Pomona

MASDB MILS Table Sequence number: 004 003 0198

Date of Report: 12/31/73 Sample number(s): HU050-HU059

LOCATION DATA

State: Az County: Cochise Township: 235 Range: 30E Section: 8

Latitude: N31 27 07 Longitude: W110 20 04 Elevation (ft): 7270

7.5' or 15' Quadrangle Map Name: Miller Peak Scale: 24000

Mining or Mineral District: New Reef

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☒ Copper ☐ Lead ☒ Mercury ☒ Zinc ☒ Other ☒

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☒ Marcasite ☐ Sphalerite ☒
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☒ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐
Large Pit (> 10 ft) ☒ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☒ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) Y

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☒ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length x Width x Height

153

WATER

Are bodies of water found on or near the site? (y/n) ✓

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) ✓

Is water being produced from the feature? (y/n) ✓

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ✓

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ✓

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☒ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ✓

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1,2E = Milling Method (Table E-5).

1,2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 17.3

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).

2B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1,2E = Milling Method (Table E-5).

1,4F = Access (Table 9).

HH = A x B x C x D x E x F = 36.3

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

⁴Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Samsom claim

Alternate Name: _____

MASDB MILS Table Sequence number: 004003 0104

Date of Report: 12/31/93 Sample number(s): HU188, HU189

LOCATION DATA

State: AZ County: Cochise Township: 24S Range: 20E Section: 3

Latitude: N31 22 10 Longitude: W110 17 35 Elevation (ft): 7000

7.5' or 15' Quadrangle Map Name: Montezuma Pass Scale: 24000

Mining or Mineral District: New Hartford

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☐ Copper ☒ Lead ☐ Mercury ☒ Zinc ☒ Other Ag

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☒ Underground ☒ Surface and Underground ☐ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☐ Marcasite ☐ Sphalerite ☐
Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐
Other FeOx ☐

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☐ Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐
Large Pit (> 10 ft) ☒ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☐ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

ESS

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☒ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 17.3$$

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).

2B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1,2F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 31.1$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E156

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Lutz Tunnel

Alternate Name: Black Bear

MASDE MILS Table Sequence number: 0040030176

Date of Report: 12/31/93 Sample number(s): HU138-HU147

LOCATION DATA

State: Az County: Cochise Township: 23S Range: 20E Section: 35

Latitude: N3123.01 Longitude: W11017.12 Elevation (ft): 7230

7.5' or 15' Quadrangle Map Name: Miller Peak Scale: 24000

Mining or Mineral District: New Hartford

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☐ Copper ☒ Lead ☐ Mercury ☒ Zinc ☐ Other Ag

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☒ Galena ☐ Marcasite ☐ Sphalerite ☐
Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☒ Limonite ☐
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☒ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☒ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length x Width x Height

E157

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☒ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 17.3

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).

2B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1,2F = Access (Table 9).

HH = A x B x C x D x E x F = 31.1

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E/S8

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Western Tungsten

Alternate Name: _____

MASDB MILS Table Sequence number: 004003 0227

Date of Report: 12/31/93 Sample number(s): HU228-HU232

LOCATION DATA

State: AZ County: Cochise Township: 23S Range: 30E Section: 29

Latitude: N3124.05 Longitude: W1101927 Elevation (ft): 7520

7.5' or 15' Quadrangle Map Name: Miller Peak Scale: 24000

Mining or Mineral District: New Reef

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper X Lead X Mercury ___ Zinc ___ Other Ag

Status of Operation:

Past Producer X Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite X Galena X Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone X Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline 1 Shaft 3 Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) Y

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other deep shafts

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E/SS

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ___ River ___ Pond ___ Intermittent Stream ___ Lake ___ Bay ___

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ___ Filled ___ Partly Filled ___ Flowing ___ Intermittent ___

If water is present, what color is it?:

Brown ___ Green ___ Yellow ___ Yellow/orange ___ Orange ___ Gray/black ___

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ___ Outside Building ___ No Building, Other Location ___

Type of Machinery:

Flotation Cell ___ Retort ___ Stamp Mill ___ Crusher ___ Ball or Rod Mill ___

Amalgamation Equipment ___ Arrastre ___ Ore Bins ___ Tanks ___ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ___ 4WD Road to < 1/2 mi of site ___

4WD Road > 1/2 mi from site ___ Trail or undrivable Road X Cross-country ___

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ___ Headframes ___ Tramways ___ Bags ___ Scrap Metal ___

Trestles ___ Wooden Structures ___ Overhead Cables ___ Powerlines ___

Power Substations ___ Transformers ___ Chemicals ___ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

GA = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 17.3

Human Hazard (HH):

GA = Commodity (Table E-1, Human column).

2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Access (Table 9).

HH = A x B x C x D x E x F = 27.7

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

09/17

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Baumkirchner

Alternate Name: Crocket

MASDB MILS Table Sequence number: 0040030097

Date of Report: 12/31/93 Sample number(s): HU120-HU125

LOCATION DATA

State: AZ County: Cochise Township: 235 Range: 21E Section: 30

Latitude: N312400 Longitude: N1101449 Elevation (ft): 5200

7.5' or 15' Quadrangle Map Name: Nicksville Scale: 24000

Mining or Mineral District: New Hartford

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☐ Copper ☐ Lead ☐ Mercury ☒ Zinc ☐ Other ☐

Status of Operation:

Past Producer ☐ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☒

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☒ Galena ☐ Marcasite ☐ Sphalerite ☒
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐
Other FeOx ☐

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☐ Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other deep shaft

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

E161

WATER

Are bodies of water found on or near the site? (y/n) Δ

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) Δ

Is water being produced from the feature? (y/n) Δ

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) Δ

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) Δ

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☒ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) Δ

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

$EA =$ Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 $ESB =$ Status (Table E-2).
 $EC =$ Type (Table E-3).
 $ED =$ Size (Table E-4).
 $EE =$ Milling Method (Table E-5).
 $EF =$ Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$$EH = A \times B \times C \times D \times E \times F = 15.6$$

Human Hazard (HH):

$HA =$ Commodity (Table E-1, Human column).
 $HSB =$ Status (Table E-2).
 $HC =$ Type (Table E-3).
 $HD =$ Size (Table E-4).
 $HE =$ Milling Method (Table E-5).
 $HF =$ Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 38.9$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20
 Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca
Primary Name: Unnamed workings
Alternate Name: _____
MASDB MILS Table Sequence number: _____
Date of Report: 12/31/93 Sample number(s): HU028-HU036

LOCATION DATA

State: AZ County: Cochise Township: 235 Range: 19E Section: 24
Latitude: N 31 25 23 Longitude: W 110 21 40 Elevation (ft): 7150
7.5' or 15' Quadrangle Map Name: Miller Peak Scale: 24000
Mining or Mineral District: New Hartford

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ___ Developed Prospect X

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___
Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___
No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___
Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___
Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other winze

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other winze

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E163

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other Spring

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☒ Filled ☒ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color Unknown

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☒ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1.5B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Acid potential; If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 15.6

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).

1.5B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Access (Table 9).

HH = A x B x C x D x E x F = 23.3

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Huachuca claims

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): HU 087- HU 089

LOCATION DATA

State: AZ County: Cochise Township: 23S Range: 20E Section: 13

Latitude: N31 25 33 Longitude: W110 15 44 Elevation (ft): 5350

7.5' or 15' Quadrangle Map Name: Miller Peak Scale: 24000

Mining or Mineral District: New Reef

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena X Marcasite ___ Sphalerite ___
Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 3 Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other ___

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other shaft

Size of Feature (ft)

Length ___ x Width ___ x Height ___

5165

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream River Pond Intermittent Stream X Lake Bay

Other

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing X Filled X Partly Filled Flowing Intermittent

If water is present, what color is it?:

Brown Green Yellow Yellow/orange Orange Gray/black

Other color unknown

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building Outside Building No Building, Other Location

Type of Machinery:

Flotation Cell Retort Stamp Mill Crusher Ball or Rod Mill

Amalgamation Equipment Arrastre Ore Bins Tanks Other

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location

ACCESS

Access is by:

Maintained Road X 4WD Road to < 1/2 mi of site

4WD Road > 1/2 mi from site Trail or undrivable Road Cross-country

There is a habitation < 1/2 mi from the site (y/n) Y

OTHER

Are any of the following other features present?:

Drums or Tanks Headframes Tramways Bags Scrap Metal

Trestles Wooden Structures Overhead Cables Powerlines

Power Substations Transformers Chemicals Other

HAZARD CALCULATIONS

Environmental Hazard (EH):

GA = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 12.4

Human Hazard (HH):

GA = Commodity (Table E-1, Human column).

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

2F = Access (Table 9).

HH = A x B x C x D x E x F = 31.1

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: HuachucaPrimary Name: Unnamed adits

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): HU194-HU196

LOCATION DATA

State: Az County: Cochise Township: 24S Range: 20E Section: 3Latitude: N31 22 03 Longitude: W110 18 26 Elevation (ft): 62707.5' or 15' Quadrangle Map Name: Montezuma Pass Scale: 24000Mining or Mineral District: New Hartford

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☐ Copper ☐ Lead ☒ Mercury ☒ Zinc ☒ Other ☐

Status of Operation:

Past Producer ☐ Explored Prospect ☒ Raw Prospect ☐ Developed Prospect ☐Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
 Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
 Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☐ Marcasite ☐ Sphalerite ☐
 Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☒
 Other FeOx ☐

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
 Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐
 Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
 Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
 Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
 Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ☐ Partly Concealed ☐
 Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
 Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
 Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length x Width x Height

E167

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road X 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

$EA =$ Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

$EB =$ Status (Table E-2).

$EC =$ Type (Table E-3).

$ED =$ Size (Table E-4).

$EE =$ Milling Method (Table E-5).

$EF =$ Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$EH = A \times B \times C \times D \times E \times F = 12.4$

Human Hazard (HH):

$HA =$ Commodity (Table E-1, Human column).

$HB =$ Status (Table E-2).

$HC =$ Type (Table E-3).

$HD =$ Size (Table E-4).

$HE =$ Milling Method (Table E-5).

$HF =$ Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 3.1$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E168

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: HuachucaPrimary Name: Unnamed workings

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): HU001-HU086

LOCATION DATA

State: AZ County: Cochise Township: 23S Range: 20E Section: 13Latitude: N31 25 46 Longitude: W110 15 36 Elevation (ft): 52507.5' or 15' Quadrangle Map Name: Miller Peak Scale: 24000Mining or Mineral District: New Reef

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground X Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 4 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) 1Large Pit (> 10 ft) 1 Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) Y

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other wires

Size of Feature (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☒ Filled ☒ Partly Filled ☒ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color unknown

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) Y

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

$6A$ = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

$1,2B$ = Status (Table E-2).

$1,2C$ = Type (Table E-3).

$1,2D$ = Size (Table E-4).

$1E$ = Milling Method (Table E-5).

$1,2F$ = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$EH = A \times B \times C \times D \times E \times F = 12.4$

Human Hazard (HH):

$9A$ = Commodity (Table E-1, Human column).

$1,2B$ = Status (Table E-2).

$1,2C$ = Type (Table E-3).

$1,2D$ = Size (Table E-4).

$1E$ = Milling Method (Table E-5).

$1,8F$ = Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 28.0$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: $EH > 20$

Category B: EH between 7 and 20

Category C: $EH < 7$

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

E170

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuq

Primary Name: Unnamed workings

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): HU135-HU137

LOCATION DATA

State: AZ County: Cochise Township: 24S Range: 20E Section: 2

Latitude: N31 22 22 Longitude: W110 16 54 Elevation (ft): 7450

7.5' or 15' Quadrangle Map Name: Montezuma Pass Scale: 24000

Mining or Mineral District: New Hartford

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground X Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___

Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline 1 Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) 2 Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact X Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

GA = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1.2B = Status (Table E-2).
 1.2C = Type (Table E-3).
 1.2D = Size (Table E-4).
 1E = Milling Method (Table E-5).
 1.2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 12.4

Human Hazard (HH):

GA = Commodity (Table E-1, Human column).
 1.2B = Status (Table E-2).
 1.2C = Type (Table E-3).
 1.2D = Size (Table E-4).
 1E = Milling Method (Table E-5).
 1.2F = Access (Table 9).

HH = A x B x C x D x E x F = 28.0

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Unnamed adit

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): HU191-HU193

LOCATION DATA

State: AZ County: Cochise Township: 24S Range: 20E Section: 10

Latitude: N 31 21 52 Longitude: W 110 17 48 Elevation (ft): 6180

7.5' or 15' Quadrangle Map Name: Montezuma Pass Scale: 24000

Mining or Mineral District: New Hartford

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground X Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) 1 Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other ___

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact X Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other ___

Size of Feature (ft)

Length ___ x Width ___ x Height ___

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Unnamed workings

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): HU126-HU128

LOCATION DATA

State: AZ County: Cochise Township: 24S Range: 20E Section: 1

Latitude: N 31 22 30 Longitude: W 110 15 39 Elevation (ft): 6250

7.5' or 15' Quadrangle Map Name: Montezuma Pass Scale: 24000

Mining or Mineral District: New Hartford

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium X Copper ___ Lead X Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena X Marcasite ___ Sphalerite X

Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X

Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) A

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E 175

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other spring

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☒ Filled ☒ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color unknown

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☒ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

ϕA = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

$1,2B$ = Status (Table E-2).

$1,2C$ = Type (Table E-3).

$1,2D$ = Size (Table E-4).

$1E$ = Milling Method (Table E-5).

$1,2F$ = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$1EH = A \times B \times C \times D \times E \times F = 12.4$

Human Hazard (HH):

$9A$ = Commodity (Table E-1, Human column).

$1,2B$ = Status (Table E-2).

$1,2C$ = Type (Table E-3).

$1,2D$ = Size (Table E-4).

$1E$ = Milling Method (Table E-5).

$1,2F$ = Access (Table 9).

$1HH = A \times B \times C \times D \times E \times F = 28.0$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E176

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Oversite

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): HU212-HU216

LOCATION DATA

State: AZ County: Cochise Township: 23S Range: 20E Section: 28

Latitude: N31 23 49 Longitude: W110 18 54 Elevation (ft): 7500

7.5' or 15' Quadrangle Map Name: Miller Peak Scale: 24000

Mining or Mineral District: New Hartford

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper X Lead ___ Mercury X Zinc ___ Other Ag

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___

Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 4 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ___ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other caved

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E177

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☒ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

$EA =$ Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 $1.2B =$ Status (Table E-2).
 $1.2C =$ Type (Table E-3).
 $1.2D =$ Size (Table E-4).
 $1.2E =$ Milling Method (Table E-5).
 $1.2F =$ Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$EH = A \times B \times C \times D \times E \times F = 12.4$

Human Hazard (HH):

$HA =$ Commodity (Table E-1, Human column).
 $1.2B =$ Status (Table E-2).
 $1.2C =$ Type (Table E-3).
 $1.2D =$ Size (Table E-4).
 $1.2E =$ Milling Method (Table E-5).
 $1.2F =$ Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 18.7$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: $EH > 20$
 Category B: EH between 7 and 20

Category C: $EH < 7$

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

E178

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Joe Bailey Prospect & vicinity

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): HU009, HU010

LOCATION DATA

State: AZ County: Cochise Township: 22S Range: 19E Section: 29

Latitude: N 31 29 28 Longitude: W 110 26 21 Elevation (ft): 5550

7.5' or 15' Quadrangle Map Name: Huachuca Peak Scale: 24000

Mining or Mineral District: New Reef

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper X Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect X Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface X Underground ___ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect X Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite X Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) X
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ___ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

179

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☒ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color unknown

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

EA = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

EB = Status (Table E-2).

EC = Type (Table E-3).

ED = Size (Table E-4).

EE = Milling Method (Table E-5).

EF = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$EH = A \times B \times C \times D \times E \times F = 10.4$

Human Hazard (HH):

HA = Commodity (Table E-1, Human column).

HB = Status (Table E-2).

HC = Type (Table E-3).

HD = Size (Table E-4).

HE = Milling Method (Table E-5).

HF = Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 23.3$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Thomas Tungsten Claims

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): HV062, HV063

LOCATION DATA

State: Az County: Cochise Township: 23S Range: 20E Section: 4

Latitude: N31 27 30 Longitude: N110 18 58 Elevation (ft): 5690

7.5' or 15' Quadrangle Map Name: Miller Peak Scale: 24000

Mining or Mineral District: New Reef

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect X Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface X Underground ___ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect X Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) 4

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ___ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E181

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

$EA =$ Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 $EB =$ Status (Table E-2).
 $EC =$ Type (Table E-3).
 $ED =$ Size (Table E-4).
 $EE =$ Milling Method (Table E-5).
 $EF =$ Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$$EH = A \times B \times C \times D \times E \times F = 10.4$$

Human Hazard (HH):

$HA =$ Commodity (Table E-1, Human column).
 $HB =$ Status (Table E-2).
 $HC =$ Type (Table E-3).
 $HD =$ Size (Table E-4).
 $HE =$ Milling Method (Table E-5).
 $HF =$ Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 23.3$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20
 Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

E182

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Unnamed working

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): HU134

LOCATION DATA

State: AZ County: Cochise Township: 24S Range: 20E Section: 1

Latitude: N 31 22 04 Longitude: W 110 15 58 Elevation (ft): 6170

7.5' or 15' Quadrangle Map Name: Montezuma Pass Scale: 24000

Mining or Mineral District: New Hartford

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect X Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface X Underground ___ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect X Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) 1 Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) A/

Mark all conditions that apply:

Open to Entry ___ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

5817

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other spring

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1,2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 10.4

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).

1B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1,2F = Access (Table 9).

HH = A x B x C x D x E x F = 23.3

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E184

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Unnamed adit

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): HU026, HU027

LOCATION DATA

State: AZ County: Cochise Township: 23S Range: 19E Section: 13

Latitude: N 31 26 08 Longitude: W 110 22 25 Elevation (ft): 6400

7.5' or 15' Quadrangle Map Name: Miller Peak Scale: 24000

Mining or Mineral District: New Hartford

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other flagged ___

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E185

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream River Pond Intermittent Stream X Lake Bay

Other

Is water present at the feature? (y/n) X

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing X Filled X Partly Filled Flowing Intermittent

If water is present, what color is it?:

Brown Green Yellow Yellow/orange Orange Gray/black

Other color unknown

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building Outside Building No Building, Other Location

Type of Machinery:

Flotation Cell Retort Stamp Mill Crusher Ball or Rod Mill

Amalgamation Equipment Arrastre Ore Bins Tanks Other

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location

ACCESS

Access is by:

Maintained Road 4WD Road to < 1/2 mi of site

4WD Road > 1/2 mi from site Trail or undrivable Road X Cross-country

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks Headframes Tramways Bags Scrap Metal

Trestles Wooden Structures Overhead Cables Powerlines

Power Substations Transformers Chemicals Other

HAZARD CALCULATIONS

Environmental Hazard (EH):

1_6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1_2B = Status (Table E-2).

1_2C = Type (Table E-3).

1_2D = Size (Table E-4).

1_2E = Milling Method (Table E-5).

1_2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$^1EH = A \times B \times C \times D \times E \times F = 10.4$

Human Hazard (HH):

1_9A = Commodity (Table E-1, Human column).

1_2B = Status (Table E-2).

1_2C = Type (Table E-3).

1_2D = Size (Table E-4).

1_2E = Milling Method (Table E-5).

1_2F = Access (Table 9).

$^1HH = A \times B \times C \times D \times E \times F = 18.7$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E186

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Unnamed adit

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): HU 190

LOCATION DATA

State: AZ County: Cochise Township: 24S Range: 20E Section: 11

Latitude: N31 21 33 Longitude: W110 17 26 Elevation (ft): 6575

7.5' or 15' Quadrangle Map Name: Monterezuma Pass Scale: 24000

Mining or Mineral District: New Hartford

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone X Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other winze

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) Y

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other winze

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E187

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) X

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☒ Filled ☒ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color unknown

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☒ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1,2B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 10.4

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).

1,2B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1,2F = Access (Table 9).

HH = A x B x C x D x E x F = 18.7

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

8813

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Unnamed working

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): HU 257

LOCATION DATA

State: AZ County: Cochise Township: 23S Range: 19E Section: 25

Latitude: N 31 23 56 Longitude: W 110 21 34 Elevation (ft): 5830

7.5' or 15' Quadrangle Map Name: Miller Peak Scale: 24000

Mining or Mineral District: New Reef

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ☒ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ☒ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ☒ Underground ___ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ☒ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ☒ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ___ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

6813

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) X

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 8.6

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).

1B = Status (Table E-2).

1,2C = Type (Table E-3).

1,2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1,2F = Access (Table 9).

HH = A x B x C x D x E x F = 23.3

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFCO

Management Unit: Huachuco

Primary Name: Pleasant View claims

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): HU064-HU071

LOCATION DATA

State: AZ County: Cochise Township: 23S Range: 20E Section: 4

Latitude: N31 27 26 Longitude: W110 18 31 Elevation (ft): 5570

7.5' or 15' Quadrangle Map Name: Miller Peak Scale: 24000

Mining or Mineral District: New Reef

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect X Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface X Underground ___ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) 2

Large Pit (> 10 ft) 3 Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other flooded

Size of Feature (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) X

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing X Filled X Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color unknown

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) X

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

¹A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

¹B = Status (Table E-2).

¹,2C = Type (Table E-3).

¹,2D = Size (Table E-4).

¹E = Milling Method (Table E-5).

¹F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

¹EH = A x B x C x D x E x F = 8.6

Human Hazard (HH):

¹A = Commodity (Table E-1, Human column).

¹B = Status (Table E-2).

¹,2C = Type (Table E-3).

¹,2D = Size (Table E-4).

¹E = Milling Method (Table E-5).

¹,2F = Access (Table 9).

¹HH = A x B x C x D x E x F = 23.3

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Huachuca

Primary Name: Unnamed workings

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): HU072-HU075

LOCATION DATA

State: Az County: Cochise Township: 23S Range: 20E Section: 11

Latitude: N31 26 59 Longitude: W110 17 02 Elevation (ft): 5320

7.5' or 15' Quadrangle Map Name: Miller Peak Scale: 24000

Mining or Mineral District: New Reef

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect X Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface X Underground ___ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect X Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) 1

Large Pit (> 10 ft) 2 Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ___ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

5193

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream River Pond Intermittent Stream X Lake Bay

Other

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing X Filled X Partly Filled Flowing Intermittent

If water is present, what color is it?:

Brown Green Yellow Yellow/orange Orange Gray/black

Other color Unknown

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building Outside Building No Building, Other Location

Type of Machinery:

Flotation Cell Retort Stamp Mill Crusher Ball or Rod Mill

Amalgamation Equipment Arrastre Ore Bins Tanks Other

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location

ACCESS

Access is by:

Maintained Road 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site Trail or undrivable Road Cross-country

There is a habitation < 1/2 mi from the site (y/n) Y

OTHER

Are any of the following other features present?:

Drums or Tanks Headframes Tramways Bags Scrap Metal

Trestles Wooden Structures Overhead Cables Powerlines

Power Substations Transformers Chemicals Other

HAZARD CALCULATIONS

Environmental Hazard (EH):

$\begin{aligned} &A = \text{Commodity (Table E-1, Environmental column) produced historically} \\ &\quad \text{or noted in analyses. Use the highest number for commodities} \\ &\quad \text{noted.} \\ &B = \text{Status (Table E-2).} \\ &1,2C = \text{Type (Table E-3).} \\ &1D = \text{Size (Table E-4).} \\ &1E = \text{Milling Method (Table E-5).} \\ &1,2F = \text{Acid potential: If any indicator minerals were checked AND} \\ &\quad \text{neutralizing has rocks are not present, } F = 1.2; \text{ otherwise } F = 1.0 \end{aligned}$

$$EH = A \times B \times C \times D \times E \times F = \underline{8.6}$$

Human Hazard (HH):

$\begin{aligned} &A = \text{Commodity (Table E-1, Human column).} \\ &B = \text{Status (Table E-2).} \\ &1,2C = \text{Type (Table E-3).} \\ &1D = \text{Size (Table E-4).} \\ &1E = \text{Milling Method (Table E-5).} \\ &1,2F = \text{Access (Table 9).} \end{aligned}$

$$HH = A \times B \times C \times D \times E \times F = \underline{19.4}$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

APPENDIX E

DOCUMENTATION FOR DERIVATION OF EH AND HH VALUES

**PATAGONIA
(INCLUDES ALSO CANELO HILLS)**

									page
Canelo Hills-Patagonia Mountains	Flux Mine	PA127-145	N312919	W1104512	54.4	A		E197	
Canelo Hills-Patagonia Mountains	Trench Camp Mineralized Area	PA289	N312810	W1104355	41.5	A		E199	
Canelo Hills-Patagonia Mountains	Christmas Gift Mine	PA90-105	N313131	W1104302	20.7	A		E201	
Canelo Hills-Patagonia Mountains	Tres de Mayo Mineralized Area	PA490-506	N312645	W1104758	20.7	A		E203	
Canelo Hills-Patagonia Mountains	Aztec Mine Group	PA117-126	N313037	W1104455	20.7	A		E205	
Canelo Hills-Patagonia Mountains	Thunder Mine	PA169-288	N312639	W1104454	20.7	A		E207	
Canelo Hills-Patagonia Mountains	Lookout Mine	PA346-367	N312826	W1104717	20.7	A		E209	
Canelo Hills-Patagonia Mountains	Ventura Mine	PA430-478	N312726	W1104550	20.7	A		E211	
Canelo Hills-Patagonia Mountains	Paymaster Mine	PA515-529	N312448	W1104428	20.7	A		E213	
Canelo Hills-Patagonia Mountains	Olive Mine	PA534-535	N312507	W1104213	20.7	A		E215	
Canelo Hills-Patagonia Mountains	Winifred Mine	PA539-541	N312407	W1104258	20.7	A		E217	
Canelo Hills-Patagonia Mountains	Shamrock Mine	PA603-641	N312419	W1104657	20.7	A		E219	
Canelo Hills-Patagonia Mountains	Buena Vista Mine	PA642-707	N312245	W1104606	20.7	A		E221	
Canelo Hills-Patagonia Mountains	Edna Group	PA708-718	N312216	W1104610	20.7	A		E223	
Canelo Hills-Patagonia Mountains	Jackalo Mine	PA564-601	N312415	W1104448	20.7	A		E225	
Canelo Hills-Patagonia Mountains	O'Mara Mine	PA507-514	N312552	W1104549	20.7	A		E227	
Canelo Hills-Patagonia Mountains	Denver Mine	PA479-489	N312703	W1104656	20.7	A		E229	
Canelo Hills-Patagonia Mountains	Haist Mine	PA530-533	N312510	W1104307	20.7	A		E231	
Canelo Hills-Patagonia Mountains	Benton Mine	PA753-756	N312027	W1104139	20.7	A		E233	
Canelo Hills-Patagonia Mountains	Sansimon Mine	PA5-15	N313207	W1104147	20.7	A		E235	
Canelo Hills-Patagonia Mountains	Lead Queen	PA146-168	N312901	W1104308	20.7	A		E237	
Canelo Hills-Patagonia Mountains	New York	PA18-66	N313135	W1103642	20.7	A		E239	
Canelo Hills-Patagonia Mountains	La Plata Mine	PA70-89	N313127	W1103532	20.7	A		E241	
Canelo Hills-Patagonia Mountains	Hardshell Mineralized Area	PA340-344	N312702	W1104254	17.3	B		E243	
Canelo Hills-Patagonia Mountains	Hidden	PA106-115	N313052	W1104213	12.4	B		E245	
Canelo Hills-Patagonia Mountains	Pollywog Group	PA536-538	N312436	W1104220	12.4	B		E247	
Canelo Hills-Patagonia Mountains	May	PA602	N312458	W1104602	12.4	B		E249	
Canelo Hills-Patagonia Mountains	Four Metals Mine	PA542-563	N312353	W1104413	12.4	B		E251	
Canelo Hills-Patagonia Mountains	Candelerio Peak	PA3-4	N313316	W1103937	12.4	B		E253	
Canelo Hills-Patagonia Mountains	Sulphide Mine	PA68, 69	N313043	W1103600	12.4	B		E255	
Canelo Hills-Patagonia Mountains	Copper Mountain	PA16, 17	N313257	W1103808	12.4	B		E257	
Canelo Hills-Patagonia Mountains	RJ	PA67	N313038	W1103658	08.6	B		E259	
Canelo Hills-Patagonia Mountains	Bluebird Group	PA759-762	N312902	W1103128	06.2	C		E261	

(Flux Mineralized Area)

Includes: Flux Mine
0040230038 - Blue Eagle Mine
0040230090 - World's Fair Mine

Invincible prospects 0040230232
Exposed Reef Mine 0040230187
Hampson Mine 0040230214

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Comado NF - Carado Hills - Patagonia Mts.

Primary Name: Flux Mine

Alternate Name: Goshen Mine

MASDB MILS Table Sequence number: 0040230054

Date of Report: 8/93 Sample number(s): PA127-145

LOCATION DATA

State: AZ County: Santa Cruz Township: 22S Range: 16E Section: 29, 30, 31, 32

Latitude: N31°29'19" Longitude: W110°45'12" Elevation (ft): 4921 ft
^{1500 m}

7.5' or 15' Quadrangle Map Name: Harshaw Cuervo Canyon Scale: 1:24000

Mining or Mineral District: Harshaw

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒
Silver ☒
antimony ☒

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☐ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☒

Large (over 1,000,000 st) ☐

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☒ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☐ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☒ Galena ☒ Marcasite ☐ Sphalerite ☐
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☒ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☒ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.) several workings

Adit ☒ Decline ☐ Shaft ☒ Glory Hole ☒ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) ☒ Quarry ☐ Placer ☐ Building ☐ Machinery ☒
Cistern ☐ Solution Mining Well ☐ Mine Dump ☒ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☒ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☒ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

Large

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream River Pond Intermittent Stream X Lake Bay

Other

Is water present at the feature? (y/n) X

Is water being produced from the feature? (y/n)

If water is present, how does it occur?:

Standing Filled Partly Filled Flowing Intermittent

If water is present, what color is it?:

Brown Green Yellow Yellow/orange Orange Gray/black

Other color

MACHINERY

Is machinery present at the site? (y/n) X

Location of Machinery:

Inside Building Outside Building No Building, Other Location

Type of Machinery:

Flotation Cell Retort Stamp Mill Crusher Ball or Rod Mill

Amalgamation Equipment Arrastre Ore Bins Tanks Other

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n)

If present, give type and location

ACCESS

Access is by:

Maintained Road X 4WD Road to < 1/2 mi of site

4WD Road > 1/2 mi from site Trail or undrivable Road Cross-country

There is a habitation < 1/2 mi from the site (y/n)

OTHER

Are any of the following other features present?:

Drums or Tanks Headframes Tramways Bags Scrap Metal

Trestles Wooden Structures Overhead Cables Powerlines

Power Substations Transformers Chemicals Other

HAZARD CALCULATIONS

Environmental Hazard (EH):

- A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 2 \times 1.2 \times 1.8 \times 2.1 \times 1 = 54.43$$

Human Hazard (HH):

- A = Commodity (Table E-1, Human column).
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 2 \times 1.2 \times 1.8 \times 2.1 \times 2 = 163.30$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A

Within a table, take only the highest value as the total value for that table.

E198

Includes:

January and Norton Mine Group 004023 0061

Also Trench Mine - but is Patented
So not included in this Form
Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Coronado N.F. - Camino 16.116 - Patagonia Mts.
Primary Name: Trench Camp Mineralized Area:
Alternate Name: _____
MASDB MILS Table Sequence number: _____
Date of Report: 8/93 Sample number(s): PA289-334

LOCATION DATA

State: AZ County: Santa Cruz Township: 22 S Range: 16 E Section: 5, 8, 17
Latitude: N312810 Longitude: W1104355 Elevation (ft): 4902 ft

7.5' or 15' Quadrangle Map Name: Harshaw Scale: 1:24000

Mining or Mineral District: Harshaw

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒ Silver

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐
Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐
Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐
No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐
Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐
Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☐ Unknown ☒

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☒ Marcasite ☐ Sphalerite ☒
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.) several
Adit ☒ Decline ☒ Shaft ☒ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☒ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☒ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length x Width x Height

150 ft deep shaft

WATER

Are bodies of water found on or near the site? (y/n) ☒

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) ☐

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☒ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
B = Status (Table E-2).
C = Type (Table E-3).
D = Size (Table E-4).
E = Milling Method (Table E-5).
F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 2 \times 1.2 \times 1.2 \times 2 \times 1.2 = 41.48$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).
B = Status (Table E-2).
C = Type (Table E-3).
D = Size (Table E-4).
E = Milling Method (Table E-5).
F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 2 \times 1.2 \times 1.2 \times 2 \times 2 = 103.68$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

E200

(Christmas Gift Mineralized area),

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Colorado N.F. - Canelo Hills - Patagonia Mountains
Primary Name: Christmas Gift Mine (Christmas Gift Mineralized area includes Elevation Mine)
Alternate Name: Horseshoe Mine, GYPSY, Rhea, Hardtmyer Property,
MASDB MILS Table Sequence number: 0040230047
Date of Report: 8/93 Sample number(s): PA 90-105

LOCATION DATA

State: AZ County: Santa Cruz Township: 22S Range: 16E Section: 16
Latitude: N313131 Longitude: W1104302 Elevation (ft): 4419 ft
7.5' or 15' Quadrangle Map Name: Mt. Hughes Scale: 1:24000
Mining or Mineral District: Harshaw

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☐ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒ Silver

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐
Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐
Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐
No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐
Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐
Large (over 1,000,000 st) ☐

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☒ Galena ☒ Marcasite ☐ Sphalerite ☐
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☒ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 5 Decline ☐ Shaft 5 Glory Hole ☐ Small Pit or Trench (< 10 ft) 5
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☒ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ☐ Partly Concealed ☐
Collapsed ☒ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

Largest adit is at least 1,600 ft.

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream X Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) ☐

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road X 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
B = Status (Table E-2).
C = Type (Table E-3).
D = Size (Table E-4).
E = Milling Method (Table E-5).
F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 20.74$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).
B = Status (Table E-2).
C = Type (Table E-3).
D = Size (Table E-4).
E = Milling Method (Table E-5).
F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 2 \times 1.2 \times 1.2 \times 1 \times 2 = 51.84$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

E202

(Tres de Mayo Mineralized Area) Includes: Sorrito Mine 004 023 0366
PA 490-506 Robert E. Lee Mine 004 023 0128
Jarillos Mine 004 023 0237
Old Timer Mine 004 023 0250

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Coronado NF - Canelo Hills - Patagonia Mountains

Primary Name: Tres de Mayo Mine

Alternate Name: Palmetto Mine

MASDB MILS Table Sequence number: 0040230388

Date of Report: 9/93 Sample number(s): PA 490-506

LOCATION DATA

State: AZ County: Santa Cruz Township: 23S Range: 15E Section: 3, 9, 10

Latitude: N 31 26 45 Longitude: W 110 47 58 Elevation (ft): 1357' 4452 ft.

7.5' or 15' Quadrangle Map Name: Cumero Canyon Scale: 1:24000

Mining or Mineral District: Palmetto

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒
silver

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☒ Marcasite ☐ Sphalerite ☒
Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☒ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ☐ Shaft ☒ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☒ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☒ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

Shift 200 ft. deep

WATER

Are bodies of water found on or near the site? (y/n) ☐

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) ☒

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☒ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 20.74$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.8 = 46.66$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A

Within a table, take only the highest value as the total value for that table.

(Aztec mineralized area)

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Cowards N.F. - Canelo Hills - Patagonia Mts.

Primary Name: Aztec Mine Group

Alternate Name: Andes Mine Group

MASDB MILS Table Sequence number: 004023 0033

Date of Report: 8/93 Sample number(s): PA 117-126

LOCATION DATA

State: AZ County: Santa Cruz Township: 22S Range: 16E Section: 19

Latitude: N 313037 Longitude: W 1104455 Elevation (ft): 4475 ft
^{1364m}

7.5' or 15' Quadrangle Map Name: Mt. Hughes (and Patagonia) Scale: 1:24000

(Mining) or Mineral District: Harshaw

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☐ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒
Silver

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☒ Galena ☐ Marcasite ☐ Sphalerite ☐
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(Indicate with an X or 1, 2, etc.)

Adit 3 Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) 2
Large Pit (> 10 ft) 1 Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☒ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☒ unstable back

Size of Feature (ft)

pit Length 30 x Width 30 x Height 20

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream X Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) ☐

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 20.74$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 46.66$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

E 206

(Thunder Mine Area)

Includes: Chief Mine Panama Adit
0040230148 Standard Mine Thunder Road Adit
0040230370 Volcano Adit Sunnyside 0040230375
0040230398 Thunder Mine Wellington Group - 0040230403
AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

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Management Unit: Cotacachi N.F. - Canelo Hills - Patagonia Mts.

Primary Name: Thunder Mine

Alternate Name: _____

MASDB MILS Table Sequence number: 0040230384

Date of Report: 8/93 Sample number(s): PA164-288

LOCATION DATA

State: AZ County: Santa Cruz Township: 235 Range: 16E Section: 31

Latitude: N312639 Longitude: W1104454 Elevation (ft): 5915 ft

7.5' or 15' Quadrangle Map Name: Karshaw & Camero Canyon Scale: 1:24000

Mineral District: Karshaw

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic X Cadmium X Copper X Lead X Mercury X Zinc X Other X
Si/val X

Status of Operation:

Past Producer X Explored Prospect _____ Raw Prospect _____ Developed Prospect _____

Status Unknown _____

Type of Operation:

Surface _____ Underground X Surface and Underground _____ Mineral Location _____

Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____

No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) _____

Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____

Large (over 1,000,000 st) _____

HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____
Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____
Jig Plant _____ Retort _____ No Mill X Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite _____ Chalcopyrite X Galena X Marcasite _____ Sphalerite X
Pyrite X Pyrrhotite _____ Stibnite _____ Other sulfide X Limonite X
Other FeOx X

Neutralizing Host Rock:

Dolomite _____ Limestone _____ Marble _____ Micrite _____ Sparite _____
Other Carbonate _____

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit X Decline _____ Shaft X Glory Hole _____ Small Pit or Trench (< 10 ft) X
Large Pit (> 10 ft) _____ Quarry _____ Placer _____ Building _____ Machinery _____
Cistern _____ Solution Mining Well _____ Mine Dump X Mill Tailings _____
Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile _____ Subsidence _____
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved _____ Concealed _____ Partly Concealed _____
Collapsed X Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____
Unstable Wall _____ Eroded _____ Partly Eroded _____ Intact _____ Subsided _____
Foundation _____ Prone to Wind Erosion _____ Other _____

Size of Feature (ft)

Length _____ x Width _____ x Height _____

150 ft 5 ft

WATER

Are bodies of water found on or near the site? (y/n) ☒

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) ☐

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 20.74$$

Human Hazard (HH):

- A = Commodity (Table E-1, Human column).
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.8 = 46.66$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is (A).

Within a table, take only the highest value as the total value for that table.

E208

(Lookout Mineralized Area)

Includes: Lookout Mine 004023 0164

Mary Kane adit

Native Silver prospect 004023 0414

Conley Keck Copper 004023 0153

Lodge Mine 004023 0149

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

New Hope Mine Group 004023 098

Gold Standard 004023 0204

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Management Unit: Cerro N.F. - Cerro Kille - Patagonia Mts. Ins.

Primary Name: Lookout Mine

Alternate Name: Domino Mine

MASDB MILS Table Sequence number: 004023 0164

Date of Report: 9/93 Sample number(s): PA346-367

LOCATION DATA

State: AZ County: Santa Cruz Township: 23S Range: 15E Section: 35

Latitude: N31°28'26" Longitude: W110°47'17" Elevation (ft): 1286m

7.5' or 15' Quadrangle Map Name: Cumero Canyon Scale: 1:24000

Mining or Mineral District: Palmetto

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒ Silver ☒

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐

Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐

Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☒ Galena ☐ Marcasite ☐ Sphalerite ☒

Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☒ Limonite ☒

Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐

Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ☒ Shaft ☒ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☒

Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐

Cistern ☐ Solution Mining Well ☐ Mine Dump ☒ Mill Tailings ☐

Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐

Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐

Collapsed ☒ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐

Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐

Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

shaft 40 ft diameter

E209

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☒ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 20.74$$

Human Hazard (HH):

- A = Commodity (Table E-1, Human column).
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.8 = 46.66$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

E210

(Ventura Mineralized Area)

Includes European Mine 0040230186

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Coronado N.F. - Canelo Hills - Patagonia Mts.

Primary Name: Ventura Mine

Alternate Name: _____

MASDB MILS Table Sequence number: 0040230394

Date of Report: 9/93 Sample number(s): PA430-478

LOCATION DATA

State: AZ County: Santa Cruz Township: 235 Range: 15E Section: 1

Latitude: N312726 Longitude: W1104550 Elevation (ft): 5319ft
^{1621m}

7.5' or 15' Quadrangle Map Name: Canelo Canyon Scale: 1:24000

Mining or Mineral District: Palmer Ho

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒ antimony
silver

Status of Operation:

Past Producer ☒ Explored Prospect _____ Raw Prospect _____ Developed Prospect _____

Status Unknown _____

Type of Operation:

Surface _____ Underground ☒ Surface and Underground _____ Mineral Location _____

Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____

No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) _____

Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____

Large (over 1,000,000 st) _____

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____

Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____

Jig Plant _____ Retort _____ No Mill ☒ Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite ☒ Chalcopyrite ☒ Galena ☒ Marcasite _____ Sphalerite ☒

Pyrite ☒ Pyrrhotite _____ Stibnite _____ Other sulfide ☒ Limonite ☒

Other FeOx ☒

Neutralizing Host Rock:

Dolomite _____ Limestone _____ Marble _____ Micrite _____ Sparite _____

Other Carbonate _____

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline _____ Shaft ☒ Glory Hole _____ Small Pit or Trench (< 10 ft) ☒

Large Pit (> 10 ft) _____ Quarry _____ Placer _____ Building _____ Machinery _____

Cistern _____ Solution Mining Well _____ Mine Dump ☒ Mill Tailings _____

Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile _____ Subsidence _____

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) Y

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed _____ Partly Concealed _____

Collapsed ☒ Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____

Unstable Wall ☒ Eroded _____ Partly Eroded _____ Intact _____ Subsided _____

Foundation _____ Prone to Wind Erosion _____ Other _____

Size of Feature (ft)

Length _____ x Width _____ x Height _____

Adit asf, entered at 1000 ft length x 12 ft wide

E211

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) X

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☒ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 26.74$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 46.66$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

¹Within a table, take only the highest value as the total value for that table.

E212

Guajolote Mineralized Area

PA 515-529

Includes: Homestake Mine 0040230211
Guajolote 0040230223
Enterprise Adit

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Coronado N.F. - Concho B.M. - Patagonia Mts.

Primary Name: Paymaster Mine

Alternate Name: _____

MASDB MILS Table Sequence number: 0040230314

Date of Report: 9/93 Sample number(s): PA 515-529

LOCATION DATA

State: AZ County: Santa Cruz Township: 23S Range: 16E Section: 19

Latitude: N312448 Longitude: W1104428 Elevation (ft): 1810m 5938ft.

7.5' or 15' Quadrangle Map Name: Harslow Scale: 1:24000

Mining or Mineral District: Patagonia

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic X Cadmium _____ Copper X Lead X Mercury X Zinc X Other X
Silver X

Status of Operation:

Past Producer X Explored Prospect _____ Raw Prospect _____ Developed Prospect _____

Status Unknown _____

Type of Operation:

Surface _____ Underground X Surface and Underground _____ Mineral Location _____

Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____

No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) _____

Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____

Large (over 1,000,000 st) _____

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____
Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____
Jig Plant _____ Retort _____ No Mill X Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite _____ Chalcopyrite _____ Galena X Marcasite _____ Sphalerite _____
Pyrite X Pyrrhotite _____ Stibnite _____ Other sulfide X Limonite _____
Other FeOx _____

Neutralizing Host Rock:

Dolomite _____ Limestone _____ Marble _____ Micrite _____ Sparite _____
Other Carbonate _____

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit X Decline _____ Shaft X Glory Hole _____ Small Pit or Trench (< 10 ft) X
Large Pit (> 10 ft) _____ Quarry _____ Placer _____ Building _____ Machinery _____
Cistern _____ Solution Mining Well _____ Mine Dump X Mill Tailings _____
Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile _____ Subsidence _____
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved _____ Concealed _____ Partly Concealed _____
Collapsed X Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____
Unstable Wall _____ Eroded _____ Partly Eroded _____ Intact _____ Subsided _____
Foundation _____ Prone to Wind Erosion _____ Other _____

Size of Feature (ft)

Length _____ x Width _____ x Height _____

800 ft. of workings

E 213

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream X Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) ☐

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = \frac{6 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2}{1} = 20.74$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = \frac{9 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2}{1} = 46.66$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

"Not in a Mineralized Area"

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Comodoro N.F. - Canelo Hills - Patagonia Mts.
Primary Name: Olive Mike
Alternate Name: _____
MASDB MILS Table Sequence number: 0040230309
Date of Report: 9/93 Sample number(s): PA 534-535

LOCATION DATA

State: AZ County: Santa Cruz Township: 22S Range: 16E Section: 22
Latitude: N312507 Longitude: W1104213 Elevation (ft): 5726 ft.
7.5' or 15' Quadrangle Map Name: Harshaw Scale: 1:24000

Mining or Mineral District: Patagonia

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium _____ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒ Silver

Status of Operation:

Past Producer ☒ Explored Prospect _____ Raw Prospect _____ Developed Prospect _____

Status Unknown _____

Type of Operation:

Surface _____ Underground ☒ Surface and Underground _____ Mineral Location _____

Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____

No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) _____

Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____

Large (over 1,000,000 st) _____

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____
Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____
Jig Plant _____ Retort _____ No Mill ☒ Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite _____ Chalcopyrite _____ Galena _____ Marcasite _____ Sphalerite _____
Pyrite ☒ Pyrrhotite _____ Stibnite _____ Other sulfide _____ Limonite _____
Other FeOx _____

Neutralizing Host Rock:

Dolomite _____ Limestone _____ Marble _____ Micrite _____ Sparite _____
Other Carbonate _____

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit _____ Decline _____ Shaft ☒ Glory Hole _____ Small Pit or Trench (< 10 ft) _____
Large Pit (> 10 ft) _____ Quarry _____ Placer _____ Building _____ Machinery _____
Cistern _____ Solution Mining Well _____ Mine Dump ☒ Mill Tailings _____
Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile _____ Subsidence _____
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved _____ Concealed ☒ Partly Concealed _____
Collapsed _____ Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____
Unstable Wall _____ Eroded _____ Partly Eroded _____ Intact _____ Subsided _____
Foundation _____ Prone to Wind Erosion _____ Other _____

Size of Feature (ft)

shaft Length _____ x Width _____ x Height _____
200ft deep

E215

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☒ Partly Filled ☐ Flowing ☒ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☒ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 30.74$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 7 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.8 = 46.66$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

"Not in a Mineralized Area"

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Coronado N.F. - Canelo K. 115 - Patagonia Mts.

Primary Name: Winifred Mine

Alternate Name: _____

MASDB MILS Table Sequence number: 004 023 0408

Date of Report: 9/93 Sample number(s): PA 539-541

LOCATION DATA

State: AZ County: Santa Cruz Township: 23 S Range: 16 E Section: 28

Latitude: N312407 Longitude: W1104258 Elevation (ft): 1753m 5751ft.

7.5' or 15' Quadrangle Map Name: Harshaw Scale: 1:24000

Mining or Mineral District: Patagonia

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium _____ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒ Si/Ver

Status of Operation:

Past Producer ☒ Explored Prospect _____ Raw Prospect _____ Developed Prospect _____

Status Unknown _____

Type of Operation:

Surface _____ Underground ☒ Surface and Underground _____ Mineral Location _____

Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____

No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) _____

Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____

Large (over 1,000,000 st) _____

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____

Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____

Jig Plant _____ Retort _____ No Mill ☒ Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite _____ Chalcopyrite _____ Galena _____ Marcasite _____ Sphalerite _____

Pyrite _____ Pyrrhotite _____ Stibnite _____ Other sulfide _____ Limonite ☒

Other FeOx ☒

Neutralizing Host Rock:

Dolomite _____ Limestone _____ Marble _____ Micrite _____ Sparite _____

Other Carbonate _____

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline _____ Shaft _____ Glory Hole _____ Small Pit or Trench (< 10 ft) ☒

Large Pit (> 10 ft) _____ Quarry _____ Placer _____ Building _____ Machinery _____

Cistern _____ Solution Mining Well _____ Mine Dump ☒ Mill Tailings _____

Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile _____ Subsidence _____

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved _____ Concealed _____ Partly Concealed _____

Collapsed ☒ Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____

Unstable Wall _____ Eroded _____ Partly Eroded _____ Intact _____ Subsidized _____

Foundation _____ Prone to Wind Erosion _____ Other _____

Size of Feature (ft)

Adit Length 1000ft. x Width _____ x Height _____

E217

WATER

Are bodies of water found on or near the site? (y/n) ☒

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) ☐

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 20.74$$

Human Hazard (HH):

- A = Commodity (Table E-1, Human column).
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 46.66$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

- | | | |
|-------------|---------------------|---|
| Category A: | EH > 20 | These are priority sites. |
| Category B: | EH between 7 and 20 | These sites should be examined in order of rank after category A is dealt with. |
| Category C: | EH < 7 | These sites may not need to be examined. |

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

E 218

(Shamrock Mineralized Area)

Includes: National Mine 004023 0297 Specularite Prospect 004023 0369
Golden Rose Mine 004023 0202 Jabalina 004023 0210
Bennett Mine 004023 0110 Isabella 004023 0234
Big Lead Mine 004023 0112 Chance 004023 0147
San Joaquin 004023 0433 Serenata Mine? 004023 0354
AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

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Management Unit: Colorado NF - Canon 6 Hills - Patagonia Mts.

Primary Name: Shamrock Mine

Alternate Name: _____

MASDB MILS Table Sequence number: 004023 0355

Date of Report: 9/23 Sample number(s): PA 603-641

LOCATION DATA

State: AZ County: Santa Cruz Township: 23S Range: 15E Section: 34, 35

Latitude: N312419 Longitude: W1104657 Elevation (ft): 4560ft

7.5 or 15' Quadrangle Map Name: Cumero Canyon Scale: 1:24000

Mining or Mineral District: Patagonia

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic X Cadmium X Copper X Lead X Mercury X Zinc X Other X
Silver X

Status of Operation:

Past Producer X Explored Prospect _____ Raw Prospect _____ Developed Prospect _____

Status Unknown _____

Type of Operation:

Surface _____ Underground X Surface and Underground _____ Mineral Location _____

Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____

No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) _____

Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____

Large (over 1,000,000 st) _____

HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____
Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____
Jig Plant _____ Retort _____ No Mill X Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite _____ Chalcopyrite X Galena X Marcasite _____ Sphalerite X
Pyrite X Pyrrhotite _____ Stibnite _____ Other sulfide X Limonite X
Other FeOx X

Neutralizing Host Rock:

Dolomite _____ Limestone _____ Marble _____ Micrite _____ Sparite _____
Other Carbonate _____

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit X Decline _____ Shaft X Glory Hole _____ Small Pit or Trench (< 10 ft) X
Large Pit (> 10 ft) _____ Quarry _____ Placer _____ Building _____ Machinery _____
Cistern _____ Solution Mining Well _____ Mine Dump X Mill Tailings _____
Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile _____ Subsidence _____
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) _____

Mark all conditions that apply:

Open to Entry X Partly Caved X Concealed _____ Partly Concealed _____
Collapsed X Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____
Unstable Wall X Eroded _____ Partly Eroded _____ Intact _____ Subsided _____
Foundation _____ Prone to Wind Erosion _____ Other _____

Size of Feature (ft)

Length _____ x Width _____ x Height _____

shaft 200 ft. deep

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☒ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 20.74$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.8 = 46.66$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

2220

Buena Vista Mineralized Area

Includes: King Mine 004023 0249

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Coronado Mts. - Canaleo Mts. - Patagonia Mts.
Primary Name: Buena Vista Mine
Alternate Name: Goodview
MASDB MILS Table Sequence number: 0040230136
Date of Report: 9/93 Sample number(s): PA642-707

LOCATION DATA

State: AZ County: Santa Cruz Township: 23S Range: 15E Section: 36
Latitude: N 31 22 45 Longitude: W 110 46 06 Elevation (ft): 1494m 4902 ft.
7.5' or 15' Quadrangle Map Name: Cumero Canyon Scale: 1:24000
Mining or Mineral District: Patagonia

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☐ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒
silver

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☒ Galena ☐ Marcasite ☐ Sphalerite ☐
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☒ Limonite ☐
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ☐ Shaft ☒ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☒ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

shaft 70 ft. deep

E221

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) ☐

Is water being produced from the feature? (y/n) X

If water is present, how does it occur?:

Standing ☐ Filled X Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 20.74$$

Human Hazard (HH):

- A = Commodity (Table E-1, Human column).
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.8 = 76.66$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

E222

Sycamore Canyon Mineralized Area

Includes: Coronado Mines Inc. 0040230157
Dor: Ann 0040230165

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Coronado NF - Canelo Hills - Patagonia Mts.

Primary Name: Edna Group

Alternate Name: _____

MASDB MILS Table Sequence number: 0040230175

Date of Report: 9/93 Sample number(s): PA 708-718

LOCATION DATA

State: AZ County: Santa Cruz Township: 24S Range: 15E Section: 12
Latitude: N31°22'16" Longitude: W110°46'10" Elevation (ft): 1390 m 4560 ft.

7.5' or 15' Quadrangle Map Name: Kino Springs Scale: 1:25000

Mining or Mineral District: Patagonia

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium _____ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒
silver ☒

Status of Operation:

Past Producer ☒ Explored Prospect _____ Raw Prospect _____ Developed Prospect _____

Status Unknown _____

Type of Operation:

Surface _____ Underground _____ Surface and Underground ☒ Mineral Location _____

Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____

No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) _____

Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____

Large (over 1,000,000 st) _____

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____

Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____

Jig Plant _____ Retort _____ No Mill ☒ Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite _____ Chalcopyrite ☒ Galena ☒ Marcasite _____ Sphalerite _____

Pyrite ☒ Pyrrhotite _____ Stibnite _____ Other sulfide ☒ Limonite _____

Other FeOx ☒

Neutralizing Host Rock:

Dolomite _____ Limestone _____ Marble _____ Micrite _____ Sparite _____

Other Carbonate _____

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline _____ Shaft ☒ Glory Hole _____ Small Pit or Trench (< 10 ft) ☒

Large Pit (> 10 ft) _____ Quarry _____ Placer _____ Building _____ Machinery _____

Cistern _____ Solution Mining Well _____ Mine Dump _____ Mill Tailings _____

Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile _____ Subsidence _____

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved _____ Concealed _____ Partly Concealed _____

Collapsed ☒ Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____

Unstable Wall _____ Eroded _____ Partly Eroded _____ Intact _____ Subsided _____

Foundation _____ Prone to Wind Erosion _____ Other _____

Size of Feature (ft)

Length _____ x Width _____ x Height _____

E223

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) ☐

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 20.74$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 46.66$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

(Jackalo Mineralized Area)

Includes: Gross Mine 0040230235 | Marche Mine

Pronto Mine 0040230325

Gladstone Mine 0040230198

Minnesota Mine

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

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Management Unit: Coronado NF - Canelo Hills - Patagonia Mts.

Primary Name: Jackalo Mine

Alternate Name: _____

MASDB MILS Table Sequence number: 0040230236

Date of Report: 9/93 Sample number(s): PA564-601

LOCATION DATA

State: AZ County: Santa Cruz Township: 23S Range: 16E Section: 39.31

Latitude: N312415 Longitude: W1104448 Elevation (ft): 1695m 5618ft

7.5' or 15' Quadrangle Map Name: Harshaw and Cuero Canyon Scale: 1:24000

Mining or Mineral District: Patagonia

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒ silver

Status of Operation:

Past Producer ☒ Explored Prospect _____ Raw Prospect _____ Developed Prospect _____

Status Unknown _____

Type of Operation:

Surface _____ Underground ☒ Surface and Underground _____ Mineral Location _____

Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____

No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) _____

Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____

Large (over 1,000,000 st) _____

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____

Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____

Jig Plant _____ Retort _____ No Mill ☒ Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite ☒ Chalcopyrite ☒ Galena ☒ Marcasite _____ Sphalerite ☒

Pyrite ☒ Pyrrhotite _____ Stibnite _____ Other sulfide ☒ Limonite _____

Other FeOx ☒

Neutralizing Host Rock:

Dolomite _____ Limestone _____ Marble _____ Micrite _____ Sparite _____

Other Carbonate _____

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline _____ Shaft ☒ Glory Hole ☒ Small Pit or Trench (< 10 ft) ☒

Large Pit (> 10 ft) _____ Quarry _____ Placer _____ Building _____ Machinery _____

Cistern _____ Solution Mining Well _____ Mine Dump ☒ Mill Tailings _____

Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile _____ Subsidence _____

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed _____ Partly Concealed _____

Collapsed ☒ Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____

Unstable Wall ☒ Eroded _____ Partly Eroded _____ Intact _____ Subsided ☒

Foundation _____ Prone to Wind Erosion _____ Other _____

Size of Feature (ft)

Length _____ x Width _____ x Height _____

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☒ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 20.74$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 46.66$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

E-226

(O'Maras Mineralized Area)

Includes: Molybdenum 0040230289 ✓

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Colorado N.E. - Canale Hills - Patagonia Mountain

Primary Name: O'Mara Mine

Alternate Name: Old Soldier Mine

MASDB MILS Table Sequence number: 0040230310

Date of Report: 9/23 Sample number(s): PA 507-514

LOCATION DATA

State: AZ County: Santa Cruz Township: 235 Range: 15E Section: 13

Latitude: N312552 Longitude: W1104549 Elevation (ft): 1689m 5541ft.

7.5' or 15' Quadrangle Map Name: Cumero Canyon Scale: 1:24000

Mining or Mineral District: Patagonia

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☐ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒ Silver

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☒ Galena ☒ Marcasite ☐ Sphalerite ☐
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☒ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ☐ Shaft ☒ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☒ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

Shaft 60 ft deep

11227

WATER

Are bodies of water found on or near the site? (y/n) ☒

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) ☐

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 20.74$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 46.66$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

E228

Denver Mineralized Area

PA 479-489

Includes: B/L "D" 0040230116

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Colorado N.F. - Canelo Hills - Patagonia Mts.

Primary Name: Denver Mine

Alternate Name: _____

MASDB MILS Table Sequence number: 0040230161

Date of Report: 9/93 Sample number(s): PA 479-489

LOCATION DATA

State: AZ County: Santa Cruz Township: 235 Range: 15E Section: 3, 11

Latitude: N312703 Longitude: W1104656 Elevation (ft): 1520m/5000ft

7.5' or 15' Quadrangle Map Name: Cumero Canyon Scale: 1:24000

Mining or Mineral District: Palmetto

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒ Silver

Status of Operation:

Past Producer ☒ Explored Prospect _____ Raw Prospect _____ Developed Prospect _____

Status Unknown _____

Type of Operation:

Surface _____ Underground ☒ Surface and Underground _____ Mineral Location _____

Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____

No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) _____

Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____

Large (over 1,000,000 st) _____

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____
Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____
Jig Plant _____ Retort _____ No Mill ☒ Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite _____ Chalcopyrite ☒ Galena ☒ Marcasite _____ Sphalerite ☒
Pyrite ☒ Pyrrhotite _____ Stibnite _____ Other sulfide _____ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite _____ Limestone _____ Marble _____ Micrite _____ Sparite _____
Other Carbonate _____

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline _____ Shaft ☒ Glory Hole _____ Small Pit or Trench (< 10 ft) _____
Large Pit (> 10 ft) _____ Quarry _____ Placer _____ Building _____ Machinery _____
Cistern _____ Solution Mining Well _____ Mine Dump _____ Mill Tailings _____
Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile _____ Subsidence _____
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) _____

Mark all conditions that apply:

Open to Entry ☒ Partly Caved _____ Concealed _____ Partly Concealed _____
Collapsed ☒ Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____
Unstable Wall _____ Eroded _____ Partly Eroded _____ Intact _____ Subsided _____
Foundation _____ Prone to Wind Erosion _____ Other _____

Size of Feature (ft)

Adit Length 490ft x Width _____ x Height _____

E2229

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) X

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☒ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 20.74$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 46.66$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

E 230

"Not in a Mineralized Area" ✓

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Cerro N.F. - Canelo Hills - Patagonia Mts.

Primary Name: Haist Mine

Alternate Name: _____

MASDB MILS Table Sequence number: 0040230212

Date of Report: 9/93 Sample number(s): PA530-533

LOCATION DATA

State: AZ County: Santa Cruz Township: 23S Range: 16E Section: 21

Latitude: N31°51'0" Longitude: W110°43'07" Elevation (ft): 1725 m / 5659 ft.

7.5' or 15' Quadrangle Map Name: Hatch Scale: 1:24000

Mining or Mineral District: Patagonia

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium _____ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒ Silver ☒

Status of Operation:

Past Producer ☒ Explored Prospect _____ Raw Prospect _____ Developed Prospect _____

Status Unknown _____

Type of Operation:

Surface _____ Underground ☒ Surface and Underground _____ Mineral Location _____

Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____

No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) _____

Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____

Large (over 1,000,000 st) _____

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____
Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____
Jig Plant _____ Retort _____ No Mill ☒ Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite _____ Chalcopyrite ☒ Galena _____ Marcasite _____ Sphalerite _____
Pyrite ☒ Pyrrhotite _____ Stibnite _____ Other sulfide ☒ Limonite _____
Other FeOx _____

Neutralizing Host Rock:

Dolomite _____ Limestone _____ Marble _____ Micrite _____ Sparite _____
Other Carbonate _____

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline _____ Shaft _____ Glory Hole _____ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) _____ Quarry _____ Placer _____ Building _____ Machinery _____
Cistern _____ Solution Mining Well _____ Mine Dump _____ Mill Tailings _____
Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile _____ Subsidence _____
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved _____ Concealed _____ Partly Concealed _____
Collapsed ☒ Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____
Unstable Wall _____ Eroded _____ Partly Eroded _____ Intact _____ Subsided _____
Foundation _____ Prone to Wind Erosion _____ Other _____

Size of Feature (ft)

Adit Length about 200 ft x Width _____ x Height _____

E231

WATER

Are bodies of water found on or near the site? (y/n) ☐

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) ☐

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 20.74$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.8 = 46.66$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

F232

Benton Mineralized Area

(Lina Boy Mine is patented
so not included here
on this form.)

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Coronado NF - Canelo Hills - Patagonia Mts.

Primary Name: Benton Mine

Alternate Name: Alfonso Villy

MASDB MILS Table Sequence number: 004023 0111

Date of Report: 9/93 Sample number(s): PA 753-756

LOCATION DATA

State: AZ County: Santa Cruz Township: 24S Range: 16E Section: 15

Latitude: N312027 Longitude: W1104139 Elevation (ft): 1722 m 5650 ft

7.5' or 15' Quadrangle Map Name: Duquesne Scale: 1:24000

Mining or Mineral District: Patagonia

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☐ Copper ☒ Lead ☒ Mercury ☐ Zinc ☒ Other ☒
silver ☒

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☒ Galena ☐ Marcasite ☐ Sphalerite ☐
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☒ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☒ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☒ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft) ^{about}

Adit Length 150 ft x Width ☐ x Height ☐

E 233

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream River Pond Intermittent Stream X Lake Bay

Other

Is water present at the feature? (y/n)

Is water being produced from the feature? (y/n)

If water is present, how does it occur?:

Standing Filled Partly Filled Flowing Intermittent

If water is present, what color is it?:

Brown Green Yellow Yellow/orange Orange Gray/black

Other color

MACHINERY

Is machinery present at the site? (y/n)

Location of Machinery:

Inside Building Outside Building No Building, Other Location

Type of Machinery:

Flotation Cell Retort Stamp Mill Crusher Ball or Rod Mill

Amalgamation Equipment Arrastre Ore Bins Tanks Other

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n)

If present, give type and location

ACCESS

Access is by:

Maintained Road 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site Trail or undrivable Road Cross-country

There is a habitation < 1/2 mi from the site (y/n)

OTHER

Are any of the following other features present?:

Drums or Tanks Headframes Tramways Bags Scrap Metal

Trestles Wooden Structures Overhead Cables Powerlines

Power Substations Transformers Chemicals Other

HAZARD CALCULATIONS

Environmental Hazard (EH):

- A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = \frac{20.74}{6 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2} = 20.74$$

Human Hazard (HH):

- A = Commodity (Table E-1, Human column).
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = \frac{41.47}{8 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.8} = 41.47$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is A

Within a table, take only the highest value as the total value for that table.

E234

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Coronado NF - Patagonia Mts.

Primary Name: Sahsimon Mtn.

Alternate Name: Henderson (Sahsimon Mineralized Area)

MASDB MILS Table Sequence number: 0040230347

Date of Report: 3/93 Sample number(s): PA5-15

LOCATION DATA

State: AZ County: Santa Cruz Township: 22S Range: 16E Section: 10
Latitude: N31deg 32min 07sec Longitude: W110deg 41min 47sec Elevation (ft): 4523 ft.

7.5' or 15' Quadrangle Map Name: Mt. Hughes Scale: 1:24,000

Mining or Mineral District: Redrock Mining District

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☐ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☒ Marcasite ☐ Sphalerite ☒
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(Indicate with an X or 1, 2, etc.)

Adit 4 Decline ☐ Shaft 2 Glory Hole ☐ Small Pit or Trench (< 10 ft) 3

Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐

Cistern ☐ Solution Mining Well ☐ Mine Dump ☒ Mill Tailings ☐

Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐

Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) y

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐

Collapsed ☒ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐

Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐

Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐
shaft 75 ft. deep
Adit 110 ft.

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream X Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) X

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled X Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 20.74$$

Human Hazard (HH):

- A = Commodity (Table E-1, Human column).
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 2 \times 1.2 \times 1 \times 1 \times 1.8 = 38.88$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

E236

(Lead Queen Mineralized area)

Includes: Basin Mine
Dewey Mine
Grant Silver Mine

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Coronado N.F. - Canby Hills - Patagonia Mts.

Primary Name: Lead Queen

Alternate Name: _____

MASDB MILS Table Sequence number: 0040230442

Date of Report: 8/93 Sample number(s): PA 146-168

LOCATION DATA

State: AZ County: Santa Cruz Township: 22S Range: 16E Section: 33

Latitude: N 31° 29' 01" Longitude: W 110° 43' 08" Elevation (ft): 4875 ft

7.5' or 15' Quadrangle Map Name: Harshaw Scale: 1:24000

Mining or Mineral District: Harshaw

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒ silver

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☒ Marcasite ☐ Sphalerite ☐
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 6 Decline ☐ Shaft 2 Glory Hole ☐ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☒ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☒ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length 166 ft x Width 166 ft x Height 166 ft

WATER

Are bodies of water found on or near the site? (y/n) ☒

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) ☒

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☒ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☒ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 20.74$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.4 = 36.29$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Coronado N.F. - Capote Hills - Patagonia Mountains

Primary Name: New York

Alternate Name: (New York Mineralized area) includes (Hale Group 0040230213) (Red Bank Group 0040230192)

MASDB MILS Table Sequence number: 0040230299

Date of Report: 8/93

Sample number(s): PA18-66

LOCATION DATA

State: AZ County: Santa Cruz Township: 22S Range: 17E Section: 15, 16, 17, 18
Latitude: N313135 Longitude: W1103642 Elevation (ft): 1525m 5003ft

7.5' or 15' Quadrangle Map Name: O'Donnell Canyon and Mt. Hugler Scale: 1:24000

Mining or Mineral District: Redrock

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒ Silver

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☒

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☒ Marcasite ☐ Sphalerite ☒
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 5 Decline ☐ Shaft 7 Glory Hole ☐ Small Pit or Trench (< 10 ft) 7
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☒ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) Y

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☒ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

shaft 160 ft deep

E 239

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☒ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

- A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 20.74$$

Human Hazard (HH):

- A = Commodity (Table E-1, Human column).
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 1.5 \times 1.2 \times 1 \times 1 \times 1.0 = 29.16$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A

Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Colorado N.F. - Canelo Hills - Patagonia Mountains
Primary Name: La Plata Mine (Black Ace)
Alternate Name: (La Plata Mineralized Area) includes Jensen Group 0040230241 Meadow Valley Mine 0040230281
MASDB MILS Table Sequence number: 0040230063
Date of Report: 8/93 Sample number(s): PA 70-89

LOCATION DATA

State: AZ County: Santa Cruz Township: 22.5 Range: 17 E Section: 14.23
Latitude: N 31.3/27 Longitude: W 110 35.32 Elevation (ft): 5226 ft
7.5' or 15' Quadrangle Map Name: O'Donnell Canyon Scale: 1:24000
Mining or Mineral District: Redrock

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒
Silver

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐
Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐
Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐
No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐
Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐
Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☒ Galena ☐ Marcasite ☐ Sphalerite ☐
Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 5 Decline ☒ Shaft 5 Glory Hole ☐ Small Pit or Trench (< 10 ft) 5
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☒ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☒ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

one shaft 70 ft deep

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☒ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Acid potential: If any indicator minerals were checked AND neutralizing how rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 20.74$$

Human Hazard (HH):

- A = Commodity (Table E-1, Human column).
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 7 \times 1.5 \times 1.2 \times 1 \times 1 \times 1.8 = 29.16$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

E242

(Hardshell Mineralized Areas) includes: Patented Mines (not included for this Form), ✓
PA 335-344
Alta Mine 004023 0015
Hardshell Mine 004023 0003

Hermoso Group 004023 0257

Salvadora Mine 004023 0004

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Coronado N.F. - Canelo Hills - Patagonia Mts.

Primary Name: Hardshell Mineralized Areas includes: Black Eagle Mine 004023 0005

Alternate Name: Bender Mine 004023 0014
Americo Mine 004023 0030

MASDB MILS Table Sequence number: _____

Date of Report: 8/93 Sample number(s): PA340-344

LOCATION DATA

State: AZ County: Santa Cruz Township: 23S Range: 16E Section: 4, 9

Latitude: N312702 Longitude: W1104254 Elevation (ft): 1654m
5926 ft.

7.5' or 15' Quadrangle Map Name: Harshaw Scale: 1:24000

Mining or Mineral District Harshaw

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☐ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒
Silver ☒

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☐ Marcasite ☐ Sphalerite ☐
Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☒ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ☒ Shaft ☒ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☒ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☒ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☒ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

60 ft deep shaft

WATER

Are bodies of water found on or near the site? (y/n) ☒

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) ☐

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 2 \times 1/2 \times 1/2 \times 1 \times 1 = 17.28$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 2 \times 1/2 \times 1/2 \times 1 \times 1.8 = 46.66$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is **B**

Within a table, take only the highest value as the total value for that table.

(Hidden Mineralized Area)

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Coronado N.F. Cone/18/115 - Patagonia Mts.
Primary Name: Hidden
Alternate Name: Bluebird, Bluebird 1, 2, 3
MASDB MILS Table Sequence number: 0040230125
Date of Report: 8/93 Sample number(s): PA106-115

LOCATION DATA

State: AZ County: Santa Cruz Township: 22S Range: 16E Section: 15, 22
Latitude: N313052 Longitude: W1104213 Elevation (ft): 1311 ^{4307 ft}
7.5' or 15' Quadrangle Map Name: Mt. Hughes Scale: 1:24000
Mining or Mineral District: Harshaw

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☐ Copper ☒ Lead ☒ Mercury ☒ Zinc ☐ Other Silver ☒

Status of Operation:

Past Producer ☐ Explored Prospect ☒ Raw Prospect ☐ Developed Prospect ☐
Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐
Placer ☐ Prospect ☒ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐
No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐
Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐
Large (over 1,000,000 st) ☐

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☐ Marcasite ☐ Sphalerite ☐
Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☒ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Pit Length 30 ft x Width 4 ft x Height ☐

E245

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream X Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) ☐

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location _____

ACCESS

Access is by:

Maintained Road X 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 1.2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 12.44$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).

B = Status (Table E-2).

C = Type (Table E-3).

D = Size (Table E-4).

E = Milling Method (Table E-5).

F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 1.2 \times 1.2 \times 1.2 \times 1 \times 2 = 31.10$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E246

"No/mineralized area"

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Coronado NF. - Canelo Hills - Patagonia Mts.
Primary Name: Pollywog Group
Alternate Name: Paymaster Spring
MASDB MILS Table Sequence number: 0040230008
Date of Report: 9/93 Sample number(s): PA 536-538

LOCATION DATA

State: AZ County: Santa Cruz Township: 235 Range: 16E Section: 21
Latitude: N312436 Longitude: W1104220 Elevation (ft): 1676 m 5499 ft.
7.5' or 15' Quadrangle Map Name: Hartshaw Scale: 1:24000
Mining or Mineral District: Patagonia

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☐ Copper ☐ Lead ☐ Mercury ☒ Zinc ☒ Other ☒
silver

Status of Operation:

Past Producer ☐ Explored Prospect ☒ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☐ Marcasite ☐ Sphalerite ☐
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ☐ Shaft ☒ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☒ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☐

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☒ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Adit Length 300 ft x Width ☐ x Height ☐

E247

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other ☒ Spring

Is water present at the feature? (y/n) ☐

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = \frac{12.44}{6 \times 1.2 \times 1.2 \times 1.2 \times 1 \times 1.2} = 12.44$$

Human Hazard (HH):

- A = Commodity (Table E-1, Human column).
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = \frac{27.99}{9 \times 1.2 \times 1.2 \times 1.2 \times 1 \times 1.8} = 27.99$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E248

"Not in a mineralized area"

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Coronado N.F. - Canelo Hills - Patagonia Mts.

Primary Name: May

Alternate Name: _____

MASDB MILS Table Sequence number: 004 023 0279

Date of Report: 9/93 Sample number(s): PA602

LOCATION DATA

State: AZ County: Santa Cruz Township: 23S Range: 15E Section: 24

Latitude: N312458 Longitude: W1104602 Elevation (ft): 4000 ft.

7.5' or 15' Quadrangle Map Name: Camero Canyon Scale: 1:24000

Mining or Mineral District: Patagonia

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other silver X

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft X Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Shaft Length ___ x Width ___ x Height ___
15 ft deep

E249

WATER

Are bodies of water found on or near the site? (y/n) ☐

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) ☒

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☒ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 12.44$$

Human Hazard (HH):

- A = Commodity (Table E-1, Human column).
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 27.99$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

- | | | |
|-------------|---------------------|---|
| Category A: | EH > 20 | These are priority sites. |
| Category B: | EH between 7 and 20 | These sites should be examined in order of rank after category A is dealt with. |
| Category C: | EH < 7 | These sites may not need to be examined. |

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E250

(Four Metals Mineralized Area)

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Coronado N. F. - Caraballo Hills - Patagonia Mts.
Primary Name: Four Metals Mine
Alternate Name: Red Hills
MASDB MILS Table Sequence number: 0040230193
Date of Report: 9/93 Sample number(s): PA 542-563

LOCATION DATA

State: AZ County: Santa Cruz Township: 235 Range: 16E Section: 29
Latitude: N312353 Longitude: W1104413 Elevation (ft): 1512^m 4961ft
7.5' or 15' Quadrangle Map Name: Harshaw Scale: 1:24000
Mining or Mineral District: Patagonia

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☐ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☒ Silver

Status of Operation:

Past Producer ☐ Explored Prospect ☒ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☒ Galena ☐ Marcasite ☐ Sphalerite ☒
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☒ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☒ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ☐ Partly Concealed ☐
Collapsed ☒ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☒ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length x Width x Height

E251

WATER

Are bodies of water found on or near the site? (y/n) ☒

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) ☒

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☒ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 1.2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 2.44$$

Human Hazard (HH):

- A = Commodity (Table E-1, Human column).
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 1.2 \times 1.2 \times 1.2 \times 1 \times 1.8 = 27.99$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E252

(No mineralized area)

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Coronado NF - Canelo 16.1/5 - Patagonia Mountains
Primary Name: Candelario Peak
Alternate Name: _____
MASDB MILS Table Sequence number: 0040230415
Date of Report: 8/93 Sample number(s): PA 3-4

LOCATION DATA

State: AZ County: Santa Cruz Township: 225 Range: 17E Section: 6
Latitude: N3133/6 Longitude: W110 3937 Elevation (ft): 5016 ft
7.5' or 15' Quadrangle Map Name: Mt. Hughes Scale: 1:24000
Mining or Mineral District: Redrock Mining District

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☐ Zinc ☒ Other ☒ silver

Status of Operation:

Past Producer ☐ Explored Prospect ☒ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☒

Type of Operation:

Surface ☒ Underground ☐ Surface and Underground ☐ Mineral Location ☐
Placer ☐ Prospect ☒ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐
No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐
Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐
Large (over 1,000,000 st) ☐

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastra ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☐ Marcasite ☐ Sphalerite ☐
Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☐ Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Trench Length 50 ft x Width 20 ft x Height ?

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ☐ ?

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐ ?

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?: ?

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
B = Status (Table E-2).
C = Type (Table E-3).
D = Size (Table E-4).
E = Milling Method (Table E-5).
F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 1.2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 12.44$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).
B = Status (Table E-2).
C = Type (Table E-3).
D = Size (Table E-4).
E = Milling Method (Table E-5).
F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 8 \times 1.2 \times 1.2 \times 1 \times 1 \times 1.8 = 20.74$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E254

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Coronado N.F. - Canelo Hills - Patagonia Mountains

Primary Name: Sulphide Mine

Alternate Name: _____

MASDB MILS Table Sequence number: 0046230372

Date of Report: 8/93 Sample number(s): PA 68, 69

LOCATION DATA

State: AZ County: Santa Cruz Township: 22S Range: 17E Section: 22

Latitude: N313043 Longitude: W1103600 Elevation (ft): 5125 FT
1562 meters

7.5 or 15' Quadrangle Map Name: O'Donnell Canyon Scale: 1:24000

Mining or Mineral District: Redrock

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium _____ Copper ☒ Lead _____ Mercury ☒ Zinc ☒ Other ☒
silver

Status of Operation:

Past Producer _____ Explored Prospect ☒ Raw Prospect _____ Developed Prospect _____

Status Unknown _____

Type of Operation:

Surface _____ Underground ☒ Surface and Underground _____ Mineral Location _____

Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____

No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) _____

Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____

Large (over 1,000,000 st) _____

HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____
Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____
Jig Plant _____ Retort _____ No Mill ☒ Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite _____ Chalcopyrite ☒ Galena _____ Marcasite _____ Sphalerite _____
Pyrite _____ Pyrrhotite _____ Stibnite _____ Other sulfide _____ Limonite _____
Other FeOx ☒

Neutralizing Host Rock:

Dolomite _____ Limestone _____ Marble _____ Micrite _____ Sparite _____
Other Carbonate _____

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline _____ Shaft _____ Glory Hole _____ Small Pit or Trench (< 10 ft) _____
Large Pit (> 10 ft) _____ Quarry _____ Placer _____ Building _____ Machinery _____
Cistern _____ Solution Mining Well _____ Mine Dump ☒ Mill Tailings _____
Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile _____ Subsidence _____
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry _____ Partly Caved _____ Concealed _____ Partly Concealed _____
Collapsed ☒ Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____
Unstable Wall _____ Eroded _____ Partly Eroded _____ Intact _____ Subsided _____
Foundation _____ Prone to Wind Erosion _____ Other _____

Size of Feature (ft)

Length _____ x Width _____ x Height _____

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream X Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) ☐

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 1.2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 12.44$$

Human Hazard (HH):

- A = Commodity (Table E-1, Human column).
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 9 \times 1 \times 1.2 \times 1 \times 1 \times 1.2 = 12.96$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E 256

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Canelo Hills - Patagonia Mountains

Primary Name: Copper Mountain

Alternate Name: _____

MASDB MILS Table Sequence number: 0040230441

Date of Report: 8/93 Sample number(s): PA 16, 17

LOCATION DATA

State: AZ County: Santa Cruz Township: 22S Range: 17E Section: 5

Latitude: N313257 Longitude: W1103808 Elevation (ft): 4800 ft
1463 meters

7.5' or 15' Quadrangle Map Name: Mt. Hughes Scale: 1:24000

Mining or Mineral District: Redrock

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium X Copper X Lead X Mercury ___ Zinc X Other X
Silver X

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite X Galena ___ Marcasite ___ Sphalerite X

Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide X Limonite ___

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump X Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) Y

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E257

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) ☐

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☒ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
B = Status (Table E-2).
C = Type (Table E-3).
D = Size (Table E-4).
E = Milling Method (Table E-5).
F = Acid potential: If any indicator minerals were checked AND neutralizing hosfrocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F =$$

$$6 \times 1.2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 12.44$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).
B = Status (Table E-2).
C = Type (Table E-3).
D = Size (Table E-4).
E = Milling Method (Table E-5).
F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F =$$

$$8 \times 1 \times 1.2 \times 1 \times 1 \times 1.4 = 13.44$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E258

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Colorado N.F. - Canelo Mills - Patagonia Mountains
Primary Name: RJ
Alternate Name: _____
MASDB MILS Table Sequence number: 0040230446
Date of Report: 8/93 Sample number(s): PA 67

LOCATION DATA

State: AZ County: Santa Cruz Township: 22S Range: 17E Section: 21
Latitude: N313038 Longitude: W1103658 Elevation (ft): 1487m
7.5' or 15' Quadrangle Map Name: O'Donnell Canyon Scale: 1:24000
Mining or Mineral District: Redrock

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium _____ Copper _____ Lead _____ Mercury _____ Zinc _____ Other X
Silver ☒

Status of Operation:

Past Producer _____ Explored Prospect _____ Raw Prospect ☒ Developed Prospect _____
Status Unknown _____

Type of Operation:

Surface ☒ Underground _____ Surface and Underground _____ Mineral Location _____
Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____
No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) _____
Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____
Large (over 1,000,000 st) _____

HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____
Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____
Jig Plant _____ Retort _____ No Mill ☒ Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite _____ Chalcopyrite _____ Galena _____ Marcasite _____ Sphalerite _____
Pyrite _____ Pyrrhotite _____ Stibnite _____ Other sulfide _____ Limonite _____
Other FeOx _____

Neutralizing Host Rock:

Dolomite _____ Limestone _____ Marble _____ Micrite _____ Sparite _____
Other Carbonate _____

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit _____ Decline _____ Shaft _____ Glory Hole _____ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) _____ Quarry _____ Placer _____ Building _____ Machinery _____
Cistern _____ Solution Mining Well _____ Mine Dump _____ Mill Tailings _____
Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile _____ Subsidence _____
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved _____ Concealed _____ Partly Concealed _____
Collapsed _____ Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____
Unstable Wall _____ Eroded _____ Partly Eroded _____ Intact _____ Subsided _____
Foundation _____ Prone to Wind Erosion _____ Other _____

Size of Feature (ft)

Length _____ x Width _____ x Height _____

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream X Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) ☐

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 6 \times 1 \times 1.2 \times 1.2 \times 1 \times 1 = 8.64$$

Human Hazard (HH):

- A = Commodity (Table E-1, Human column).
 B = Status (Table E-2).
 C = Type (Table E-3).
 D = Size (Table E-4).
 E = Milling Method (Table E-5).
 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 7 \times 1 \times 1.2 \times 1 \times 1 \times 1.8 = 15.12$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

^{Within} a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Colorado N.F. - Canelo Hills - Patagonia Mts

Primary Name: Blue Bird Group

Alternate Name: _____

MASDB MILS Table Sequence number: 004023 0009

Date of Report: 8/93 Sample number(s): PA 759-762

LOCATION DATA

State: AZ county: Santa Cruz Township: 225 Range: 18E Section: 33

Latitude: N312902 Longitude: W1103128 Elevation (ft): 1654m
5426ft.

(7.5) or 15' Quadrangle Map Name: Canelo Pass Scale: 1:24000

Mining or Mineral District: "Not in one"

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ___ Zinc ___ Other X
Manganese X

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface X Underground ___ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) 2
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Trench Length 20 ft x Width ___ x Height ___

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WATER

Are bodies of water found on or near the site? (y/n) ☐

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) ☐

Is water being produced from the feature? (y/n) ☐

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ☐

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ☐

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
B = Status (Table E-2).
C = Type (Table E-3).
D = Size (Table E-4).
E = Milling Method (Table E-5).
F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 3 \times 1.2 \times 1.2 \times 1.2 \times 1 \times 1.2 = 6.22$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).
B = Status (Table E-2).
C = Type (Table E-3).
D = Size (Table E-4).
E = Milling Method (Table E-5).
F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 3 \times 1.2 \times 1.2 \times 1.2 \times 1 \times 1.8 = 9.33$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20
Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is C

¹Within a table, take only the highest value as the total value for that table.

APPENDIX E

DOCUMENTATION FOR DERIVATION OF EH AND HH VALUES

PELONCILLO

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Peloncillo

Primary Name: Silver Tip Mine

Alternate Name: _____

MASDB MILS Table Sequence number: 0040030747

Date of Report: 8-10-93 Sample number(s): PE 4-19

LOCATION DATA

State: AZ County: Cochise Township: 23S Range: 32E Section: 26

Latitude: N312854 Longitude: W1090323 Elevation (ft): _____

7.5' or 15' Quadrangle Map Name: Guadalupe Spring Scale: 7.5

Mining or Mineral District: Cottonwood Basin

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ☒ Zinc ___ Other ☒

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ☒

Type of Operation:

Surface ___ Underground ___ Surface and Underground ☒ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ☒ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) 2

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) X

Is water being produced from the feature? (y/n) h

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☒ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ☐

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- 6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.2 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$^1EH = A \times B \times C \times D \times E \times F = 12.4$$

Human Hazard (HH):

- 9 A = Commodity (Table E-1, Human column).
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.8 F = Access (Table 9).

$$^1HH = A \times B \times C \times D \times E \times F = 28.0$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

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APPENDIX E

DOCUMENTATION FOR DERIVATION OF EH AND HH VALUES

PINALENO-GREASEWOOD

Pinaleno Greasewood Mtns.
Pinaleno-Greasewood Mtns.
Pinaleno-Greasewood Mtns.
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Pinaleno-Greasewood Mtns.
Pinaleno-Greasewood Mtns.
Pinaleno-Greasewood Mtns.

Gold Gulch prospects
Black Beauty prospect
President Mine
Unnamed shaft
Unnamed adit
Unnamed adit
Unnamed prospects
Unnamed shaft
Unnamed prospect
Unnamed shaft

PI 21-38	N323750	W1095427	12.5	B
PI 14-20	N324119	W1100330	17.3	B
PI 6-8	N324345	W1100520	12.5	B
PI 47	N322730	W1094916	10.4	B
PI 57-60	N323507	W1094547	10.4	B
PI 1	N324457	W1100649	10.4	B
PI 49-51	N322827	W1094437	08.7	B
PI 39-40	N323545	W1095230	08.7	B
PI 64-65	N324150	W1094724	01.7	C
PI 56	N323006	W1094601	01.4	C

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E 287

E268

12.5 / 8.7

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Pinaleno Greasewood Mtns.

Primary Name: Gold Gulch Prospects

Alternate Name: _____

MASDB MILS Table Sequence number: 0040090041; 0262; 0266; 0277

Date of Report: 8-4-93 Sample number(s): PI 21-38

LOCATION DATA

State: AZ County: Graham Township: 9S Range: 24E Section: 20, 29

Latitude: N 32 37 50 Longitude: W 109 54 27 Elevation (ft): 5,400

7.5' or 15' Quadrangle Map Name: Fort Grant, Webb Peak Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ___ Zinc ___ Other X

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground X Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 3 Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) 12

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall X Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E269

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream River Pond Intermittent Stream X Lake Bay

Other

Is water present at the feature? (y/n) X

Is water being produced from the feature? (y/n) X

If water is present, how does it occur?:

Standing X Filled Partly Filled Flowing Intermittent

If water is present, what color is it?:

Brown Green Yellow Yellow/orange Orange Gray/black

Other color Clear

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building Outside Building No Building, Other Location

Type of Machinery:

Flotation Cell Retort Stamp Mill Crusher Ball or Rod Mill

Amalgamation Equipment Arrastre Ore Bins Tanks Other

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location

ACCESS

Access is by:

Maintained Road 4WD Road to < 1/2 mi of site

4WD Road > 1/2 mi from site Trail or undrivable Road Cross-country X

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks Headframes Tramways Bags Scrap Metal

Trestles Wooden Structures Overhead Cables Powerlines

Power Substations Transformers Chemicals Other

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.2 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 12.5$$

Human Hazard (HH):

5 A = Commodity (Table E-1, Human column).
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 8.7$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.
Category B:	EH between 7 and 20	
Category C:	EH < 7	

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E270

17.3 / 51.8

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AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Pinaleno - Greasewood Mtns.

Primary Name: Black Beauty Prospect

Alternate Name: _____

MASDB MILS Table Sequence number: 0040090369

Date of Report: 8-4-93 Sample number(s): PI 14-20

LOCATION DATA

State: AZ County: Graham Township: 8S Range: 22E Section: 36

Latitude: N324119 Longitude: W1100330 Elevation (ft): 5,160

7.5' or 15' Quadrangle Map Name: Blue Jay Peak Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ☒ Zinc ___ Other ___

Status of Operation:

Past Producer ☒ Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ☒ Underground ___ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) 4
Large Pit (> 10 ft) 1 Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump 1 Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) n

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E271

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) X

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☒

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☒

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☒ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☒

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1 F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 17.3

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).

2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

2 F = Access (Table 9).

HH = A x B x C x D x E x F = 51.8

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E272

12.5/12.1

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Pinaleno-Greasewood Mtns.

Primary Name: President Mine

Alternate Name: _____

MASDB MILS Table Sequence number: 0040090232

Date of Report: 8-3-93 Sample number(s): PZ 6-8

LOCATION DATA

State: AR County: Graham Township: 8S Range: 22E Section: 22

Latitude: N32 43 45 Longitude: W110 05 20 Elevation (ft): 5,480

7.5' or 15' Quadrangle Map Name: Blue Jay Peak Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ___ Zinc ___ Other X

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) 1
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E2273

WATER

Are bodies of water found on or near the site? (y/n) h

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) h

Is water being produced from the feature? (y/n) h

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☒ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- 6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.2 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 12.5$$

Human Hazard (HH):

- 5 A = Commodity (Table E-1, Human column).
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.4 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 12.1$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Pinaleno-Greasewood Mtns.

Primary Name: Unnamed Shaft

Alternate Name: _____

MASDB MILS Table Sequence number: 0040090338

Date of Report: 8-4-93 Sample number(s): PI 47

LOCATION DATA

State: AZ County: Graham Township: 115 Range: 25E Section: 20

Latitude: N322730 Longitude: W1094916 Elevation (ft): 5,000

7.5' or 15' Quadrangle Map Name: Greasewood Mtn. Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium _____ Copper ☒ Lead _____ Mercury ☒ Zinc _____ Other _____

Status of Operation:

Past Producer _____ Explored Prospect ☒ Raw Prospect _____ Developed Prospect _____

Status Unknown _____

Type of Operation:

Surface _____ Underground ☒ Surface and Underground _____ Mineral Location _____

Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____

No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) _____

Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____

Large (over 1,000,000 st) _____

HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____
Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____
Jig Plant _____ Retort _____ No Mill ☒ Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite _____ Chalcopyrite _____ Galena _____ Marcasite _____ Sphalerite _____

Pyrite _____ Pyrrhotite _____ Stibnite _____ Other sulfide _____ Limonite _____

Other FeOx _____

Neutralizing Host Rock:

Dolomite _____ Limestone _____ Marble _____ Micrite _____ Sparite _____

Other Carbonate _____

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit _____ Decline _____ Shaft ☒ Glory Hole _____ Small Pit or Trench (< 10 ft) _____

Large Pit (> 10 ft) _____ Quarry _____ Placer _____ Building _____ Machinery _____

Cistern _____ Solution Mining Well _____ Mine Dump _____ Mill Tailings _____

Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile _____ Subsidence _____

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved _____ Concealed _____ Partly Concealed _____

Collapsed _____ Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____

Unstable Wall _____ Eroded _____ Partly Eroded _____ Intact _____ Subsided _____

Foundation _____ Prone to Wind Erosion _____ Other _____

Size of Feature (ft)

Length _____ x Width _____ x Height _____

E275

10.4
/28.0

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- 6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 10.4$$

Human Hazard (HH):

- 9 A = Commodity (Table E-1, Human column).
 1.2 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.8 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 28.0$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is B.

^{Within} a table, take only the highest value as the total value for that table.

E276

10.4 / 28.0

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Pinaleno - Greasewood Mtns.

Primary Name: Unnamed Adit

Alternate Name: _____

MASDB MILS Table Sequence number: 0040090370

Date of Report: 8-5-93 Sample number(s): PI-57-60

LOCATION DATA

State: AZ County: Graham Township: 10S Range: 25E Section: 2

Latitude: N32 35 07 Longitude: W109 45 47 Elevation (ft): 4,670

7.5' or 15' Quadrangle Map Name: Stockton Pass Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ☒ Mercury ___ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground ☒ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ☒ Marcasite ___ Sphalerite ___

Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ___ Shaft ☒ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ☒ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E277

WATER

Are bodies of water found on or near the site? (y/n) n

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) n

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

5 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1.2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.2 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

'EH = A x B x C x D x E x F = 10.4

Human Hazard (HH):

8 A = Commodity (Table E-1, Human column).

1.2 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.8 F = Access (Table 9).

'HH = A x B x C x D x E x F = 24.9

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E278

10.4
/7.2

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Pinaleno-Greasewood Mtns.

Primary Name: Unhamed Adit

Alternate Name: _____

MASDB MILS Table Sequence number: 0040090193

Date of Report: 8-3-93 Sample number(s): PI-1

LOCATION DATA

State: AZ County: Graham Township: 8S Range: 22E Section: 17

Latitude: N324457 Longitude: W1100649 Elevation (ft): 5,290

7.5' or 15' Quadrangle Map Name: Blue Jay Peak Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ___ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

Type and number of workings: (indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

CONDITION OF SITE AND/OR FEATURE

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved X Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall X Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

SIZE OF FEATURE (ft)

Length ___ x Width ___ x Height ___

E2279

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☒

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.2 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$^1EH = A \times B \times C \times D \times E \times F = 10.4$

Human Hazard (HH):

5 A = Commodity (Table E-1, Human column).

1 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1 F = Access (Table 9).

$^1HH = A \times B \times C \times D \times E \times F = 7.2$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E280

8.7
/20.7

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Pinaleno = Greasewood Mts.

Primary Name: Unnamed Prospects

Alternate Name: _____

MASDB MILS Table Sequence number: 0040090315

Date of Report: 8-4-93 Sample number(s): PZ 49-51

LOCATION DATA

State: AZ County: Graham Township: 11S Range: 25E Section: 13

Latitude: N322827 Longitude: W1094437 Elevation (ft): 5350

7.5' or 15' Quadrangle Map Name: Monk Draw Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ☒ Copper ___ Lead ☒ Mercury ___ Zinc ☒ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ☒ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground ☒ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

Page 2/4

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ☒ Marcasite ___ Sphalerite ☒
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline 1 Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) 1 Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E281

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☒ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☒ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) Y

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

$5A =$ Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

$1B =$ Status (Table E-2).

$1.2C =$ Type (Table E-3).

$1.2D =$ Size (Table E-4).

$1E =$ Milling Method (Table E-5).

$1.2F =$ Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$EH = A \times B \times C \times D \times E \times F = 8.7$

Human Hazard (HH):

$8A =$ Commodity (Table E-1, Human column).

$1B =$ Status (Table E-2).

$1.2C =$ Type (Table E-3).

$1.2D =$ Size (Table E-4).

$1E =$ Milling Method (Table E-5).

$1.2F =$ Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 20.7$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

282

8.7
13.0

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Pinaleno - Greasewood Mtns.

Primary Name: Unlicensed Shaft

Alternate Name: _____

MASDB MILS Table Sequence number: 0040090312

Date of Report: 8-4-93 Sample number(s): PI 39-40

LOCATION DATA

State: AZ County: Graham Township: 10S Range: 24E Section: 3

Latitude: N3235 45 Longitude: W1095230 Elevation (ft): 5,320

7.5' or 15' Quadrangle Map Name: Stockton Pass Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ☒ Lead ___ Mercury ___ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ☒ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ☒ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) n

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E283

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream X Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) X

Is water being produced from the feature? (y/n) n

If water is present, how does it occur?:

Standing ☐ Filled X Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown X Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) n

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) n

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) n

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- 5 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.2 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 8.7$$

Human Hazard (HH):

- 5 A = Commodity (Table E-1, Human column).
 1 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.8 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 13.0$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

18284

1.7
/2.6

Page 1/4

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Pinaleno - Greasewood Mtn.

Primary Name: Unnamed Prospect

Alternate Name: _____

MASDB MILS Table Sequence number: 0040090196

Date of Report: 8-5-93 Sample number(s): PI 64-65

LOCATION DATA

State: AZ County: Graham Township: 8S Range: 25E Section: 33

Latitude: N324150 Longitude: W1094724 Elevation (ft): 4360

7.5' or 15' Quadrangle Map Name: MT Graham Scale: 2.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ___ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ☒ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground ☒ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

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HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) 1

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ☒ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E285

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream X River ___ Pond ___ Intermittent Stream ___ Lake ___ Bay ___

Other _____

Is water present at the feature? (y/n) h

Is water being produced from the feature? (y/n) h

If water is present, how does it occur?:

Standing ___ Filled ___ Partly Filled ___ Flowing ___ Intermittent ___

If water is present, what color is it?:

Brown ___ Green ___ Yellow ___ Yellow/orange ___ Orange ___ Gray/black ___

Other color _____

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building ___ Outside Building ___ No Building, Other Location ___

Type of Machinery:

Flotation Cell ___ Retort ___ Stamp Mill ___ Crusher ___ Ball or Rod Mill ___

Amalgamation Equipment ___ Arrastre ___ Ore Bins ___ Tanks ___ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ___ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ___ Trail or undrivable Road ___ Cross-country ___

There is a habitation < 1/2 mi from the site (y/n) h

OTHER

Are any of the following other features present?:

Drums or Tanks ___ Headframes ___ Tramways ___ Bags ___ Scrap Metal ___

Trestles ___ Wooden Structures ___ Overhead Cables ___ Powerlines ___

Power Substations ___ Transformers ___ Chemicals ___ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

- / A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 / B = Status (Table E-2).
 1,2 C = Type (Table E-3).
 1,2 D = Size (Table E-4).
 / E = Milling Method (Table E-5).
 1,2 F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = \underline{1.7}$$

Human Hazard (HH):

- / A = Commodity (Table E-1, Human column).
 / B = Status (Table E-2).
 1,2 C = Type (Table E-3).
 1,2 D = Size (Table E-4).
 / E = Milling Method (Table E-5).
 1,2 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = \underline{2.6}$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is C.

Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Pinaleno - Greasewood Mtn.

Primary Name: Unnamed Shaft

Alternate Name: _____

MASDB MILS Table Sequence number: 0040090313

Date of Report: 8-5-93 Sample number(s): PI 56

LOCATION DATA

State: AZ County: Graham Township: 11 S Range: 2 SE Section: 2

Latitude: N32 30 06 Longitude: W109 46 01 Elevation (ft): 5,600

7.5' or 15' Quadrangle Map Name: Stockton Pass Scale: 7.5

Mining or Mineral District: _____

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ___ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ☒ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(Indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E287

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) h

Is water being produced from the feature? (y/n) h

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) h

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☒

There is a habitation < 1/2 mi from the site (y/n) h

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

/ A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
/ B = Status (Table E-2).
/ .2 C = Type (Table E-3).
/ .2 D = Size (Table E-4).
/ E = Milling Method (Table E-5).
/ F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0
 $EH = A \times B \times C \times D \times E \times F = 1.4$

Human Hazard (HH):

/ A = Commodity (Table E-1, Human column).
/ B = Status (Table E-2).
/ .2 C = Type (Table E-3).
/ .2 D = Size (Table E-4).
/ E = Milling Method (Table E-5).
/ F = Access (Table 9).
 $HH = A \times B \times C \times D \times E \times F = 1.4$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20
Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is C.

Within a table, take only the highest value as the total value for that table.

APPENDIX E

DOCUMENTATION FOR DERIVATION OF EH AND HH VALUES

SANTA CATALINA-RINCON

Santa Catalina-Rincon	Taraldson claim	SC136-SC138	N323339	W1104450	24.9	A	E 291
Santa Catalina-Rincon	Carolina Moon Group	SC100-SC107	N323409	W1104414	20.7	A	E 293
Santa Catalina-Rincon	Burney Group	SC47-SC50	N323320	W1104734	20.7	A	E 295
Santa Catalina-Rincon	Burney Group	SC62-SC66	N323303	W1104728	20.7	A	E 297
Santa Catalina-Rincon	Highjinks	SC95-SC97	N323412	W1104417	20.7	A	E 299
Santa Catalina-Rincon	Burney Group	SC9-16,24-30	N323302	W1104756	20.7	A	E 301
Santa Catalina-Rincon	Burney Group	SC31, SC32	N323307	W1104757	20.7	A	E 303
Santa Catalina-Rincon	Burney Group	SC33-SC38	N323309	W1104755	20.7	A	E 305
Santa Catalina-Rincon	Golden Eagle	SC164, SC165	N323318	W1104248	20.7	A	E 307
Santa Catalina-Rincon	Pretty Fair	SC51, SC52	N323222	W1104701	20.7	A	E 309
Santa Catalina-Rincon	Old Maudina	SC160-SC162	N323306	W1104338	17.3	B	E 311
Santa Catalina-Rincon	Mary West	SC189-SC197	N323156	W1104434	15.6	B	E 313
Santa Catalina-Rincon	G O P	SC166-SC173	N323256	W1104309	15.6	B	E 315
Santa Catalina-Rincon	Unnamed workings	SC205-SC211	N323057	W1104242	15.6	B	E 317
Santa Catalina-Rincon	American Flag	SC121-SC123	N323441	W1104319	15.6	B	E 319
Santa Catalina-Rincon	Copper Cliff	SC139, SC140	N323346	W1104402	15.6	B	E 321
Santa Catalina-Rincon	Unnamed adits	SC144-SC156	N323330	W1104406	15.6	B	E 323
Santa Catalina-Rincon	Burney Group	SC41-SC46	N323323	W1104746	14.4	B	E 325
Santa Catalina-Rincon	Burney Group	SC39	N323313	W1104742	13.0	B	E 327
Santa Catalina-Rincon	Suena del Oro	SC112, SC113	N323354	W1104349	12.4	B	E 329
Santa Catalina-Rincon	Unnamed adit	SC142, SC143	N323334	W1104405	12.4	B	E 331
Santa Catalina-Rincon	Unnamed workings	SC114-SC118	N323432	W1104352	12.4	B	E 333
Santa Catalina-Rincon	Little Hill	SC53-SC60	N323235	W1104711	12.4	B	E 335
Santa Catalina-Rincon	Unnamed working	SC8	N323255	W1104759	12.4	B	E 337
Santa Catalina-Rincon	Unnamed workings	SC70-SC79	N323300	W1104711	12.4	B	E 339
Santa Catalina-Rincon	Pima Joe claim #1	SC110, SC111	N323406	W1104407	12.4	B	E 341
Santa Catalina-Rincon	Unnamed workings	SC134, SC135	N323337	W1104510	12.4	B	E 343
Santa Catalina-Rincon	Unnamed workings	SC158, SC159	N323321	W1104348	10.8	B	E 345
Santa Catalina-Rincon	Colden Contract	SC124	N323420	W1104306	10.4	B	E 347
Santa Catalina-Rincon	Unnamed adit	SC225-SC227	N322833	W1104332	10.4	B	E 349
Santa Catalina-Rincon	Unnamed adit	SC186-SC188	N323220	W1104438	10.4	B	E 351
Santa Catalina-Rincon	Unnamed adit	SC201, SC202	N323141	W1104239	10.4	B	E 353
Santa Catalina-Rincon	Unnamed workings	SC163	N323307	W1104323	10.4	B	E 355
Santa Catalina-Rincon	Golden Earth & vicinity	SC125-SC128	N323402	W1104238	10.4	B	E 357
Santa Catalina-Rincon	Unnamed adits	SC198, SC199	N323137	W1104439	10.4	B	E 359
Santa Catalina-Rincon	Unnamed workings	SC84-SC86	N323418	W1104721	10.4	B	E 361
Santa Catalina-Rincon	Unnamed working	SC17	N323248	W1104739	10.4	B	E 363
Santa Catalina-Rincon	Unnamed workings	SC229	N322834	W1104317	08.6	B	E 365
Santa Catalina-Rincon	Unnamed workings	SC216-SC223	N322853	W1104528	08.6	B	E 367
Santa Catalina-Rincon	Unnamed outcrop	SC181	N323219	W1104454	08.6	B	E 369
Santa Catalina-Rincon	Unnamed working	SC120	N323439	W1104326	08.6	B	E 371
Santa Catalina-Rincon	Unnamed workings	SC67, SC68	N323307	W1104722	08.6	B	E 373
Santa Catalina-Rincon	Unnamed working	SC157	N323326	W1104352	08.6	B	E 375
Santa Catalina-Rincon	Unnamed adit	SC253	N322244	W1103416	08.6	B	E 377
Santa Catalina-Rincon	Unnamed working	SC69	N323249	W1104706	06.9	C	E 379
Santa Catalina-Rincon	Gold Hill	SC82, SC83	N323351	W1104721	04.0	C	E 381
Santa Catalina-Rincon	Unnamed working	SC179, SC180	N323219	W1104504	02.1	C	E 383
Santa Catalina-Rincon	Unnamed working	SC182, SC183	N322228	W1104501	02.1	C	E 385

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Taraldson Claims

Alternate Name: _____

MASDB MILS Table Sequence number: 0041210829

Date of Report: 12/31/93 Sample number(s): SC 136 - SC 138

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 16E Section: 18

Latitude: N 32 33 39 Longitude: W 110 44 50 Elevation (ft): 5000

7.5' or 15' Quadrangle Map Name: Campo Bonito Scale: 24000

Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre X Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ___ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X
Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other flooded _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E291

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing X Filled ☐ Partly Filled X Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color unknown

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) Y

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1.2E = Milling Method (Table E-5).

1.2F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

$EH = A \times B \times C \times D \times E \times F = 24.9$

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1.2E = Milling Method (Table E-5).

1.2F = Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 56.0$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

¹Within a table, take only the highest value as the total value for that table.

E292

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Carolina Moon Group

Alternate Name: _____

MASDB MILS Table Sequence number: 0040210219

Date of Report: 12/31/93 Sample number(s): SC100-SC107

LOCATION DATA

State: Az County: Pinal Township: 10S Range: 16E Section: 17

Latitude: N32 34 09 Longitude: W110 44 14 Elevation (ft): 4880

7.5' or 15' Quadrangle Map Name: Campo Bonito Scale: 24000

Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer X Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground X Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena X Marcasite ___ Sphalerite ___

Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X

Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) X

Large Pit (> 10 ft) 5 Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile X Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other deep shaft

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E293

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) X

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

⁶A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

²B = Status (Table E-2).

^{1.2}C = Type (Table E-3).

^{1.2}D = Size (Table E-4).

¹E = Milling Method (Table E-5).

^{1.2}F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

¹EH = A x B x C x D x E x F = 20.7

Human Hazard (HH):

⁹A = Commodity (Table E-1, Human column).

²B = Status (Table E-2).

^{1.2}C = Type (Table E-3).

^{1.2}D = Size (Table E-4).

¹E = Milling Method (Table E-5).

^{1.8}F = Access (Table 9).

¹HH = A x B x C x D x E x F = 46.7

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

¹Within a table, take only the highest value as the total value for that table.

4623
E294

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Burney Group

Alternate Name: Slims

MASDB MILS Table Sequence number: 004 021 0208

Date of Report: 12/31/93 Sample number(s): SC47-SC50

LOCATION DATA

State: AZ County: Pinal Township: 103 Range: R15E Section: 22

Latitude: N32 33 20 Longitude: W110 47 34 Elevation (ft): 3920

7.5' or 15' Quadrangle Map Name: Oracle SE Scale: 24000

Mining or Mineral District: Burney

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☐ Copper ☐ Lead ☒ Mercury ☒ Zinc ☒ Other Ag

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☐ Marcasite ☐ Sphalerite ☐
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) 2
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other winze

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

E295

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 20.7

Human Hazard (HH):

QA = Commodity (Table E-1, Human column).

2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Access (Table 9).

HH = A x B x C x D x E x F = 46.7

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: 2 Santa Catalina - Rincon
Primary Name: Beth Burney Group
Alternate Name: Birthday, Birthday Extension
MASDB MILS Table Sequence number: 0040210208
Date of Report: 12/31/99 Sample number(s): SC 62 - SC 66

LOCATION DATA

State: Az County: Pinal Township: 10S Range: 15E Section: 22
Latitude: N32 33 03 Longitude: W 110 47 28 Elevation (ft): 3950
7.5' or 15' Quadrangle Map Name: Grade SE Scale: 24000
Mining or Mineral District: Burney

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other Ag

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐
Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐
Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐
No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐
Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐
Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☒ Marcasite ☐ Sphalerite ☐
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☒ Limonite ☐
Other FeOx ☐

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ☐ Shaft 1 Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other bad air

Size of Feature (ft)

Length x Width x Height

E297

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream X Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

$6A =$ Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

$2B =$ Status (Table E-2).

$1.2C =$ Type (Table E-3).

$1.2D =$ Size (Table E-4).

$1E =$ Milling Method (Table E-5).

$1.2F =$ Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$$EH = A \times B \times C \times D \times E \times F = 20.7$$

Human Hazard (HH):

$9A =$ Commodity (Table E-1, Human column).

$2B =$ Status (Table E-2).

$1.2C =$ Type (Table E-3).

$1.2D =$ Size (Table E-4).

$1E =$ Milling Method (Table E-5).

$1.8F =$ Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 46.7$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

E298

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Highjinks

Alternate Name: _____

MASDB MILS Table Sequence number: 0040210524

Date of Report: 12/31/93 Sample number(s): 2-SC95-3C 78

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 10E Section: 17

Latitude: N32 34 12 Longitude: W110 44 17 Elevation (ft): 4980

7.5' or 15' Quadrangle Map Name: Campo Bonito Scale: 24000

Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer X Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground X Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) X
Large Pit (> 10 ft) X Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E299

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) Y

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 2B = Status (Table E-2).
 1.2C = Type (Table E-3).
 1.2D = Size (Table E-4).
 1E = Milling Method (Table E-5).
 1.2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 20.7$$

Human Hazard (HH):

4A = Commodity (Table E-1, Human column).
 2B = Status (Table E-2).
 1.2C = Type (Table E-3).
 1.2D = Size (Table E-4).
 1E = Milling Method (Table E-5).
 1.8F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 46.7$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Burney Group

Alternate Name: _____

MASDB MILS Table Sequence number: 0040210208

Date of Report: 12/31/93 Sample number(s): SC9-10, 24-30

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 15E Section: 22

Latitude: N32 33 02 Longitude: W110 47 56 Elevation (ft): 4560

7.5' or 15' Quadrangle Map Name: Oracle SE Scale: 24000

Mining or Mineral District: Burney

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other Ag

Status of Operation:

Past Producer ☒ Explored Prospect _____ Raw Prospect _____ Developed Prospect _____

Status Unknown _____

Type of Operation:

Surface _____ Underground _____ Surface and Underground ☒ Mineral Location _____

Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____

No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) _____

Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____

Large (over 1,000,000 st) _____

HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____

Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____

Jig Plant _____ Retort _____ No Mill ☒ Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite _____ Chalcopyrite _____ Galena _____ Marcasite _____ Sphalerite _____

Pyrite _____ Pyrrhotite _____ Stibnite _____ Other sulfide _____ Limonite ☒

Other FeOx ☒

Neutralizing Host Rock:

Dolomite _____ Limestone _____ Marble _____ Micrite _____ Sparite _____

Other Carbonate _____

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 6 Decline _____ Shaft _____ Glory Hole _____ Small Pit or Trench (< 10 ft) 2

Large Pit (> 10 ft) 5 Quarry _____ Placer _____ Building _____ Machinery _____

Cistern _____ Solution Mining Well _____ Mine Dump _____ Mill Tailings _____

Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile _____ Subsidence _____

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) Y

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☒ Concealed _____ Partly Concealed _____

Collapsed ☒ Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____

Unstable Wall _____ Eroded _____ Partly Eroded _____ Intact _____ Subsided _____

Foundation _____ Prone to Wind Erosion _____ Other _____

Size of Feature (ft)

Length _____ x Width _____ x Height _____

E301

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 20.7

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).

2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.8F = Access (Table 9).

HH = A x B x C x D x E x F = 46.7

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

E302

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon
Primary Name: Burney Group
Alternate Name: Lead Reef
MASDB MILS Table Sequence number: 0040210208
Date of Report: 12/31/93 Sample number(s): SC 31- SC 32

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 15E Section: 22
Latitude: N32 33 07 Longitude: W110 47 57 Elevation (ft): 4400
7.5' or 15' Quadrangle Map Name: Oracle SE Scale: 24000
Mining or Mineral District: Burney

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☐ Copper ☐ Lead ☒ Mercury ☒ Zinc ☐ Other ☐

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☒ Marcasite ☐ Sphalerite ☐
Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☐ Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐
Large Pit (> 10 ft) ☒ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other shaft

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

E303

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 20.7

Human Hazard (HH):

6A = Commodity (Table E-1, Human column).

2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Access (Table 9).

HH = A x B x C x D x E x F = 46.7

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

Within a table, take only the highest value as the total value for that table.

E304

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon
Primary Name: Burney Group
Alternate Name: Lead Reef Extension
MASDB MILS Table Sequence number: 0040210208
Date of Report: 12/31/93 Sample number(s): SC33-SC38

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 15E Section: 22
Latitude: N32 33 09 Longitude: W110 47 55 Elevation (ft): 4200
7.5' or 15' Quadrangle Map Name: Oracle SE Scale: 24000
Mining or Mineral District: Burney

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☐ Copper ☒ Lead ☒ Mercury ☒ Zinc ☒ Other ☐

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐
Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐
Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐
No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐
Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐
Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☐ Marcasite ☐ Sphalerite ☐
Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ☐ Shaft 1 Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other shaft or slope

Size of Feature (ft)

Length x Width x Height

E305

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 20.7

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).

2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Access (Table 9).

HH = A x B x C x D x E x F = 46.7

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is A.

¹Within a table, take only the highest value as the total value for that table.

E306

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon
Primary Name: Golden Eagle
Alternate Name: Old Hat
MASDB MILS Table Sequence number: 0040210401
Date of Report: 12/31/93 Sample number(s): SC164, SC165

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 16E Section: 21
Latitude: N 32 33 18 Longitude: W 110 42 48 Elevation (ft): 4520
7.5' or 15' Quadrangle Map Name: Campo Bonito Scale: 24000
Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☐ Copper ☐ Lead ☒ Mercury ☒ Zinc ☐ Other Ag

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐
Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐
Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐
No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐
Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐
Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☒ Marcasite ☐ Sphalerite ☐
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☐ Decline ☐ Shaft 1 Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐
Large Pit (> 10 ft) 3 Quarry ☐ Placer ☐ Building ☒ Machinery ☒
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ☐ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other locked door

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

E307

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) X

Location of Machinery:

Inside Building ☐ Outside Building ☒ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other compressor

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

ϕA = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

λB = Status (Table E-2).

λC = Type (Table E-3).

λD = Size (Table E-4).

λE = Milling Method (Table E-5).

λF = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$EH = A \times B \times C \times D \times E \times F = 26.7$

Human Hazard (HH):

ϕA = Commodity (Table E-1, Human column).

λB = Status (Table E-2).

λC = Type (Table E-3).

λD = Size (Table E-4).

λE = Milling Method (Table E-5).

λF = Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 46.6$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

¹Within a table, take only the highest value as the total value for that table.

E308

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Pre-Hy Fair

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC51, SC52

LOCATION DATA

State: Az County: Pinal Township: 703 Range: 15E Section: 26

Latitude: N32 32 22 Longitude: W110 47 01 Elevation (ft): 4200

7.5' or 15' Quadrangle Map Name: Oracle SE Scale: 24000

Mining or Mineral District: Burney

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium _____ Copper _____ Lead _____ Mercury _____ Zinc _____ Other Ag

Status of Operation:

Past Producer ☒ Explored Prospect _____ Raw Prospect _____ Developed Prospect _____

Status Unknown _____

Type of Operation:

Surface _____ Underground _____ Surface and Underground ☒ Mineral Location _____

Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____

No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) _____

Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____

Large (over 1,000,000 st) _____

HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____
Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____
Jig Plant _____ Retort _____ No Mill ☒ Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite _____ Chalcopyrite _____ Galena _____ Marcasite _____ Sphalerite _____
Pyrite _____ Pyrrhotite _____ Stibnite _____ Other sulfide _____ Limonite ☒
Other FeOx _____

Neutralizing Host Rock:

Dolomite _____ Limestone _____ Marble _____ Micrite _____ Sparite _____
Other Carbonate _____

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 4 Decline _____ Shaft _____ Glory Hole _____ Small Pit or Trench (< 10 ft) _____
Large Pit (> 10 ft) 7 Quarry _____ Placer _____ Building _____ Machinery _____
Cistern _____ Solution Mining Well _____ Mine Dump _____ Mill Tailings _____
Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile _____ Subsidence _____
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) Δ

Mark all conditions that apply:

Open to Entry ☒ Partly Caved _____ Concealed _____ Partly Concealed _____
Collapsed _____ Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____
Unstable Wall _____ Eroded _____ Partly Eroded _____ Intact _____ Subsided _____
Foundation _____ Prone to Wind Erosion _____ Other _____

Size of Feature (ft)

Length _____ x Width _____ x Height _____

E309

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$EH = A \times B \times C \times D \times E \times F = 20.7$

Human Hazard (HH):

7A = Commodity (Table E-1, Human column).

2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.8F = Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 36.3$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is A.

¹Within a table, take only the highest value as the total value for that table.

E 310

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon
Primary Name: Cid Maudina
Alternate Name: Don Pedro
MASDB MILS Table Sequence number: 004021 0401
Date of Report: 12/31/96 Sample number(s): SC/60-56162

LOCATION DATA

State: Az County: Pinal Township: 10S Range: 16E Section: 20
Latitude: N32 33 06 Longitude: W110 43 38 Elevation (ft): 4980
7.5' or 15' Quadrangle Map Name: Campa Bonita Scale: 2400
Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☐ Copper ☐ Lead ☐ Mercury ☒ Zinc ☐ Other Au

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐
Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☒ Mineral Location ☐
Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐
No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐
Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐
Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☐ Marcasite ☐ Sphalerite ☐
Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐
Other FeOx ☐

Neutralizing Host Rock:

Dolomite ☐ Limestone ☒ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ☐ Shaft 1 Glory Hole ☐ Small Pit or Trench (< 10 ft) 1
Large Pit (> 10 ft) 2 Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☒ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other winzes

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other deep shaft

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ___ River ___ Pond ___ Intermittent Stream ___ Lake ___ Bay ___

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ___ Filled ___ Partly Filled ___ Flowing ___ Intermittent ___

If water is present, what color is it?:

Brown ___ Green ___ Yellow ___ Yellow/orange ___ Orange ___ Gray/black ___

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ___ Outside Building ___ No Building, Other Location ___

Type of Machinery:

Flotation Cell ___ Retort ___ Stamp Mill ___ Crusher ___ Ball or Rod Mill ___

Amalgamation Equipment ___ Arrastre ___ Ore Bins ___ Tanks ___ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ___ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ___ Trail or undrivable Road ___ Cross-country ___

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ___ Headframes ___ Tramways ___ Bags ___ Scrap Metal ___

Trestles ___ Wooden Structures ___ Overhead Cables ___ Powerlines ___

Power Substations ___ Transformers ___ Chemicals ___ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

GA = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 LB = Status (Table E-2).
 LC = Type (Table E-3).
 LD = Size (Table E-4).
 LE = Milling Method (Table E-5).
 LF = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 17.3$$

Human Hazard (HH):

GA = Commodity (Table E-1, Human column).
 LB = Status (Table E-2).
 LC = Type (Table E-3).
 LD = Size (Table E-4).
 LE = Milling Method (Table E-5).
 LF = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 46.7$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

E312

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Mary West

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC189-SC197

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 16E Section: 30

Latitude: N 32 31 56 Longitude: W 110 44 34 Elevation (ft): 5500

7.5' or 15' Quadrangle Map Name: Camp Bonito Scale: 24000

Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ☒ Mercury ☒ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ___ Developed Prospect ☒

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ☒ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ☒ Marcasite ___ Sphalerite ___

Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___

Other FeOx ☒

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(Indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) 1 Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other Wintzes

Size of Feature (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☒ Filled ☒ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color Unknown

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

$6A$ = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

$1.5B$ = Status (Table E-2).

$1.2C$ = Type (Table E-3).

$1.2D$ = Size (Table E-4).

$1E$ = Milling Method (Table E-5).

$1.2F$ = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$EH = A \times B \times C \times D \times E \times F = 15.6$

Human Hazard (HH):

$9A$ = Commodity (Table E-1, Human column).

$1.5B$ = Status (Table E-2).

$1.2C$ = Type (Table E-3).

$1.2D$ = Size (Table E-4).

$1E$ = Milling Method (Table E-5).

$1.8F$ = Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 35.0$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

END

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: G O P

Alternate Name: _____

MASDB MILS Table Sequence number: 0040210394

Date of Report: 12/31/93 Sample number(s): SC/66-SC/73

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 16E Section: 21

Latitude: N32 32 56 Longitude: W110 43 09 Elevation (ft): 4900

7.5' or 15' Quadrangle Map Name: Campo Bonito Scale: 24000

Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☒ Copper ☐ Lead ☒ Mercury ☒ Zinc ☐ Other ☐

Status of Operation:

Past Producer ☐ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☒

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☒ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐

Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐

Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☐ Marcasite ☐ Sphalerite ☐

Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐

Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☒ Marble ☐ Micrite ☐ Sparite ☐

Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ☒ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☒

Large Pit (> 10 ft) ☒ Quarry ☐ Placer ☐ Building ☐ Machinery ☐

Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐

Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐

Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐

Collapsed ☒ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐

Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐

Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

ESIS

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

ϕA = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

$1.5B$ = Status (Table E-2).

$1.2C$ = Type (Table E-3).

$1.2D$ = Size (Table E-4).

$1E$ = Milling Method (Table E-5).

$1.2F$ = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$EH = A \times B \times C \times D \times E \times F = 15.6$

Human Hazard (HH):

$9A$ = Commodity (Table E-1, Human column).

$1.5B$ = Status (Table E-2).

$1.2C$ = Type (Table E-3).

$1.2D$ = Size (Table E-4).

$1E$ = Milling Method (Table E-5).

$1.8F$ = Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 35.0$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Unnamed workings

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC205-SC211

LOCATION DATA

State: AZ County: Pinal Township: 105 Range: 165 Section: 33

Latitude: N32 30 57 Longitude: W110 42 42 Elevation (ft): 5000

7.5' or 15' Quadrangle Map Name: Campo Bonito Scale: 24000

Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead X Mercury X Zinc X Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ___ Developed Prospect X

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground X Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena X Marcasite ___ Sphalerite X
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X
Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) 3
Large Pit (> 10 ft) 5 Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved X Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other shaft

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E317

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1.5B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1.1E = Milling Method (Table E-5).

1.2F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 15.6$$

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).

1.5B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1.1E = Milling Method (Table E-5).

1.8F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 35.0$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

E318

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina-Rincon
Primary Name: American Flag
Alternate Name: Bear Cat
MASDB MILS Table Sequence number: 004021 0108
Date of Report: 12/31/93 Sample number(s): SC121-SC123

LOCATION DATA

State: Az County: Pinal Township: 10 S Range: 16 E Section: 08
Latitude: N32 34 41 Longitude: W110 43 19 Elevation (ft): 4120
7.5' or 15' Quadrangle Map Name: Campo Bonito Scale: 24000
Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☒ Copper ☐ Lead ☐ Mercury ☒ Zinc ☐ Other ☐

Status of Operation:

Past Producer ☐ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☒
Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐
Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐
No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐
Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐
Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☐ Marcasite ☐ Sphalerite ☐
Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☐ Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐
Large Pit (> 10 ft) ☒ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length x Width x Height

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) Y

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1.5B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 15.6

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).

1.5B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.8F = Access (Table 9).

HH = A x B x C x D x E x F = 35.0

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

F320

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon
Primary Name: Copper Cliff
Alternate Name: _____
MASDB MILS Table Sequence number: 0040210255
Date of Report: 12/31/93 Sample number(s): SC139, SC140

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 16E Section: 17
Latitude: N32 33 46 Longitude: W110 44 02 Elevation (ft): 4760
7.5' or 15' Quadrangle Map Name: Campo Bonito Scale: 24000
Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium X Copper X Lead X Mercury X Zinc ___ Other Ag

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ___ Developed Prospect X
Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___
Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___
No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___
Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___
Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena X Marcasite ___ Sphalerite ___
Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other shaft

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E321

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) X

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing X Filled ☐ Partly Filled X Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color unknown

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) X

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

GA = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1.5B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 15.6

Human Hazard (HH):

GA = Commodity (Table E-1, Human column).

1.5B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Access (Table 9).

HH = A x B x C x D x E x F = 35.0

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E322

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina Rincon
Primary Name: Unnamed adits
Alternate Name: _____
MASDB MILS Table Sequence number: _____
Date of Report: 12/31/93 Sample number(s): SC144-SC156

LOCATION DATA

State: Az County: Pinal Township: 10S Range: 16E Section: 17
Latitude: N32 33 36 Longitude: W110 44 06 Elevation (ft): 5000
7.5' or 15' Quadrangle Map Name: Campa Bonita Scale: 24000
Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium X Copper ___ Lead X Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ___ Developed Prospect X

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide X Limonite X
Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 3 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other open slope

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other steep, flooded

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E323

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) Y

If water is present, how does it occur?:

Standing X Filled ☐ Partly Filled X Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color unknown

MACHINERY

Is machinery present at the site? (y/n) Y

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) Y

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) Y

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- 6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1.5 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.2 F = Acid potential; If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 15.6$$

Human Hazard (HH):

- 9 A = Commodity (Table E-1, Human column).
 1.5 B = Status (Table E-2).
 1.2 C = Type (Table E-3).
 1.2 D = Size (Table E-4).
 1 E = Milling Method (Table E-5).
 1.2 F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 35.0$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E324

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Burney Group

Alternate Name: Stone Lid

MASDB MILS Table Sequence number: 0040210798

Date of Report: 12/31/93 Sample number(s): SC 41-3C46

LOCATION DATA

State: Az County: Pinal Township: 103 Range: 15E Section: 22

Latitude: N32 33 23 Longitude: W110 47 46 Elevation (ft): 3920

7.5' or 15' Quadrangle Map Name: Oracle SE Scale: 24000

Mining or Mineral District: Burney

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☒ Copper ☐ Lead ☒ Mercury ☐ Zinc ☒ Other ☐

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☒ Marcasite ☐ Sphalerite ☐
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☒ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 4 Decline ☐ Shaft ☒ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other open slopes

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) Y

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other shafts, slopes

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

E325

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream River Pond Intermittent Stream X Lake Bay

Other

Is water present at the feature? (y/n) X

Is water being produced from the feature? (y/n) Δ

If water is present, how does it occur?:

Standing X Filled Partly Filled Flowing Intermittent

If water is present, what color is it?:

Brown Green Yellow Yellow/orange Orange Gray/black

Other color unknown

MACHINERY

Is machinery present at the site? (y/n) Δ

Location of Machinery:

Inside Building Outside Building No Building, Other Location

Type of Machinery:

Flotation Cell Retort Stamp Mill Crusher Ball or Rod Mill

Amalgamation Equipment Arrastre Ore Bins Tanks Other

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) Δ

If present, give type and location

ACCESS

Access is by:

Maintained Road 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site Trail or undrivable Road Cross-country

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks Headframes Tramways Bags Scrap Metal

Trestles Wooden Structures Overhead Cables Powerlines

Power Substations Transformers Chemicals Other

HAZARD CALCULATIONS

Environmental Hazard (EH):

SA = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

SB = Status (Table E-2).

.2C = Type (Table E-3).

.2D = Size (Table E-4).

.E = Milling Method (Table E-5).

.F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 14.4

Human Hazard (HH):

SA = Commodity (Table E-1, Human column).

SB = Status (Table E-2).

.2C = Type (Table E-3).

.2D = Size (Table E-4).

.E = Milling Method (Table E-5).

.8F = Access (Table 9).

HH = A x B x C x D x E x F = 41.5

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

E 326

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon
Primary Name: Burney Group
Alternate Name: _____
MASDB MILS Table Sequence number: 0040210208
Date of Report: 12/31/93 Sample number(s): SC 39

LOCATION DATA

State: Az County: pinal Township: 10S Range: 15E Section: 22
Latitude: N 32 33 13 Longitude: W 110 47 42 Elevation (ft): 4020
7.5' or 15' Quadrangle Map Name: Oracle SE Scale: 24000
Mining or Mineral District: Burney

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☐ Copper ☐ Lead ☒ Mercury ☒ Zinc ☒ Other ☐

Status of Operation:

Past Producer ☐ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☒
Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☒ Surface and Underground ☐ Mineral Location ☐
Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐
No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐
Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐
Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☐ Marcasite ☐ Sphalerite ☐
Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐
Other FeOx ☐

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☒ Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐
Large Pit (> 10 ft) ☐ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length x Width x Height

E327

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

.5B = Status (Table E-2).

.2C = Type (Table E-3).

.2D = Size (Table E-4).

.E = Milling Method (Table E-5).

F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 13.0

Human Hazard (HH):

A = Commodity (Table E-1, Human column).

.5B = Status (Table E-2).

.2C = Type (Table E-3).

.2D = Size (Table E-4).

.E = Milling Method (Table E-5).

.F = Access (Table 9).

HH = A x B x C x D x E x F = 35.0

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E 328

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Suana del Oro

Alternate Name: _____

MASDB MILS Table Sequence number: 0040210800

Date of Report: 12/31/93 Sample number(s): SC112, SC113

LOCATION DATA

State: Az County: Pinal Township: 10 S Range: 16 E Section: 17

Latitude: N32 33 54 Longitude: W110 43 49 Elevation (ft): 4740

7.5' or 15' Quadrangle Map Name: Campo Bonito Scale: 24000

Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface X Underground ___ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) 5 Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ___ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E329

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) Y

, OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1.2B = Status (Table E-2).
 1.2C = Type (Table E-3).
 1.2D = Size (Table E-4).
 1E = Milling Method (Table E-5).
 1.2F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

$$^1EH = A \times B \times C \times D \times E \times F = \underline{12.4}$$

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).
 1.2B = Status (Table E-2).
 1.2C = Type (Table E-3).
 1.2D = Size (Table E-4).
 1E = Milling Method (Table E-5).
 1.8F = Access (Table 9).

$$^1HH = A \times B \times C \times D \times E \times F = \underline{28.0}$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E330

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon
Primary Name: Unnamed adit
Alternate Name: _____
MASDB MILS Table Sequence number: _____
Date of Report: 12/31/93 Sample number(s): SC142, SC143

LOCATION DATA

State: Az County: Pinal Township: 10S Range: 16E Section: 17
Latitude: N32 33 34 Longitude: W110 44 05 Elevation (ft): 4890
7.5' or 15' Quadrangle Map Name: Campo Bonito Scale: 24000
Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead X Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite X Galena X Marcasite ___ Sphalerite ___
Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) Y

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other flooded _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

1331

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing X Filled ☐ Partly Filled X Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color unknown

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) Y

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

1.2A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
1.2B = Status (Table E-2).
1.2C = Type (Table E-3).
1.2D = Size (Table E-4).
1.2E = Milling Method (Table E-5).
1.2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 12.4$$

Human Hazard (HH):

1.2A = Commodity (Table E-1, Human column).
1.2B = Status (Table E-2).
1.2C = Type (Table E-3).
1.2D = Size (Table E-4).
1.2E = Milling Method (Table E-5).
1.2F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 28.0$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E 332

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - RinconPrimary Name: Unnamed workings

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC114-SC118

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 16E Section: 08Latitude: 32 34 32 Longitude: W110 43 52 Elevation (ft): 46407.5' or 15' Quadrangle Map Name: Campo Bonito Scale: 24000Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground X Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X
Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) 2 Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E 333

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 12.4$$

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.8F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 28.0$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

E334

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon
Primary Name: Little Hill
Alternate Name: Saldino
MASDB MILS Table Sequence number: 0040210618
Date of Report: 12/31/93 Sample number(s): SC 53-SC60

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 15E Section: 23
Latitude: N32 32 35 Longitude: W 110 47 11 Elevation (ft): 4200
7.5' or 15' Quadrangle Map Name: Oracle SE Scale: 24000
Mining or Mineral District: Burney

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium ☐ Copper ☐ Lead ☒ Mercury ☒ Zinc ☐ Other Ag

Status of Operation:

Past Producer ☐ Explored Prospect ☒ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☐ Underground ☐ Surface and Underground ☒ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☐ Marcasite ☐ Sphalerite ☐
Pyrite ☒ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 5 Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) 2
Large Pit (> 10 ft) 2 Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other winze

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

E335

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

Q_A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

$1.2B$ = Status (Table E-2).

$1.2C$ = Type (Table E-3).

$1.2D$ = Size (Table E-4).

$1E$ = Milling Method (Table E-5).

$1.2F$ = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$$^1EH = A \times B \times C \times D \times E \times F = 12.4$$

Human Hazard (HH):

Q_A = Commodity (Table E-1, Human column).

$1.2B$ = Status (Table E-2).

$1.2C$ = Type (Table E-3).

$1.2D$ = Size (Table E-4).

$1E$ = Milling Method (Table E-5).

$1.8F$ = Access (Table 9).

$$^1HH = A \times B \times C \times D \times E \times F = 28.0$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

E336

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Unnamed working

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC8

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 15E Section: 22

Latitude: 32 32 55 Longitude: W 110 47 59 Elevation (ft): 4520

7.5' or 15' Quadrangle Map Name: Oracle SE Scale: 24000

Mining or Mineral District: Burney

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect X Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface X Underground ___ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect X Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) X
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

1337

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

- EA = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 EB = Status (Table E-2).
 EC = Type (Table E-3).
 ED = Size (Table E-4).
 EE = Milling Method (Table E-5).
 EF = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$$EH = A \times B \times C \times D \times E \times F = 12.4$$

Human Hazard (HH):

- HA = Commodity (Table E-1, Human column).
 HB = Status (Table E-2).
 HC = Type (Table E-3).
 HD = Size (Table E-4).
 HE = Milling Method (Table E-5).
 HF = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 28.0$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Unnamed Workings

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC 20 - SC 29

LOCATION DATA

State: Az County: Pinal Township: 10S Range: 16E Section: 23

Latitude: N 32 33 00 Longitude: W 110 47 11 Elevation (ft): 4200

7.5' or 15' Quadrangle Map Name: Oracle SE Scale: 24000

Mining or Mineral District: Burney

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium _____ Copper ☒ Lead ☒ Mercury ☒ Zinc _____ Other Ag

Status of Operation:

Past Producer _____ Explored Prospect ☒ Raw Prospect _____ Developed Prospect _____

Status Unknown _____

Type of Operation:

Surface _____ Underground _____ Surface and Underground ☒ Mineral Location _____

Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____

No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) _____

Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____

Large (over 1,000,000 st) _____

HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____
Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____
Jig Plant _____ Retort _____ No Mill ☒ Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite _____ Chalcopyrite ☒ Galena _____ Marcasite _____ Sphalerite _____
Pyrite _____ Pyrrhotite _____ Stibnite _____ Other sulfide ☒ Limonite ☒
Other FeOx _____

Neutralizing Host Rock:

Dolomite _____ Limestone _____ Marble _____ Micrite _____ Sparite _____
Other Carbonate _____

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline _____ Shaft _____ Glory Hole _____ Small Pit or Trench (< 10 ft) 3
Large Pit (> 10 ft) 9 Quarry _____ Placer _____ Building _____ Machinery _____
Cistern _____ Solution Mining Well _____ Mine Dump ☒ Mill Tailings _____
Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile 3 Subsidence _____
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ☒ Partly Caved _____ Concealed _____ Partly Concealed _____
Collapsed _____ Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____
Unstable Wall _____ Eroded _____ Partly Eroded _____ Intact _____ Subsided _____
Foundation _____ Prone to Wind Erosion _____ Other _____

Size of Feature (ft)

Length _____ x Width _____ x Height _____

E339

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

- $EA =$ Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 $1.2B =$ Status (Table E-2).
 $1.2C =$ Type (Table E-3).
 $1.2D =$ Size (Table E-4).
 $1E =$ Milling Method (Table E-5).
 $1.2F =$ Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$$EH = A \times B \times C \times D \times E \times F = 12.4$$

Human Hazard (HH):

- $HA =$ Commodity (Table E-1, Human column).
 $1.2B =$ Status (Table E-2).
 $1.2C =$ Type (Table E-3).
 $1.2D =$ Size (Table E-4).
 $1E =$ Milling Method (Table E-5).
 $1.2F =$ Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 28.0$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E340

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Pima Joe Claim #1

Alternate Name: _____

MASDB MILS Table Sequence number: 0040210966

Date of Report: 12/31/93 Sample number(s): SC110, SC111

LOCATION DATA

State: Az County: Pinal Township: 10S Range: 16E Section: 17

Latitude: N32 34 06 Longitude: W110 44 07 Elevation (ft): 4880

7.5' or 15' Quadrangle Map Name: Campo Bonito Scale: 24000

Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface X Underground ___ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___

Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) 1

Large Pit (> 10 ft) 2 Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ___ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

341

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) Y

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

EA = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 EB = Status (Table E-2).
 EC = Type (Table E-3).
 ED = Size (Table E-4).
 EE = Milling Method (Table E-5).
 EF = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 12.4$$

Human Hazard (HH):

HA = Commodity (Table E-1, Human column).
 HB = Status (Table E-2).
 HC = Type (Table E-3).
 HD = Size (Table E-4).
 HE = Milling Method (Table E-5).
 HF = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 28.0$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A:	EH > 20	These are priority sites.
Category B:	EH between 7 and 20	These sites should be examined in order of rank after category A is dealt with.
Category C:	EH < 7	These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E342

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Unnamed workings

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC134, SC135

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 16E Section: 18

Latitude: N32 33 37 Longitude: W110 45 10 Elevation (ft): 5320

7.5' or 15' Quadrangle Map Name: Oracle Scale: 24000

Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface X Underground ___ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) 3 Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E343

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) Y

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 12.4

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.8F = Access (Table 9).

HH = A x B x C x D x E x F = 28.0

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E344

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Unnamed workings

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC158, SC159

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 16E Section: 20

Latitude: N32 33 21 Longitude: W110 43 48 Elevation (ft): 4970

7.5' or 15' Quadrangle Map Name: Campo Bonito Scale: 24000

Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium X Copper ___ Lead ___ Mercury ___ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ___ Developed Prospect X

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground X Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena X Marcasite ___ Sphalerite ___

Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X

Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone X Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft 2 Glory Hole ___ Small Pit or Trench (< 10 ft) 1

Large Pit (> 10 ft) 1 Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other shafts

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E
3
4
5

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ___ River ___ Pond ___ Intermittent Stream ___ Lake ___ Bay ___

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ___ Filled ___ Partly Filled ___ Flowing ___ Intermittent ___

If water is present, what color is it?:

Brown ___ Green ___ Yellow ___ Yellow/orange ___ Orange ___ Gray/black ___

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ___ Outside Building ___ No Building, Other Location ___

Type of Machinery:

Flotation Cell ___ Retort ___ Stamp Mill ___ Crusher ___ Ball or Rod Mill ___

Amalgamation Equipment ___ Arrastre ___ Ore Bins ___ Tanks ___ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ___ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ___ Trail or undrivable Road ___ Cross-country ___

There is a habitation < 1/2 mi from the site (y/n) X

OTHER

Are any of the following other features present?:

Drums or Tanks ___ Headframes ___ Tramways ___ Bags ___ Scrap Metal ___

Trestles ___ Wooden Structures ___ Overhead Cables ___ Powerlines ___

Power Substations ___ Transformers ___ Chemicals ___ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

S_A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

$1.5B$ = Status (Table E-2).

$1.2C$ = Type (Table E-3).

$1.2D$ = Size (Table E-4).

$1E$ = Milling Method (Table E-5).

$1F$ = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$$^1EH = A \times B \times C \times D \times E \times F = 10.8$$

Human Hazard (HH):

S_A = Commodity (Table E-1, Human column).

$1.5B$ = Status (Table E-2).

$1.2C$ = Type (Table E-3).

$1.2D$ = Size (Table E-4).

$1E$ = Milling Method (Table E-5).

$1F$ = Access (Table 9).

$$^1HH = A \times B \times C \times D \times E \times F = 17.3$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

E 346

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon
Primary Name: Golden Contact
Alternate Name: Old Rocket
MASDB MILS Table Sequence number: 0040210399
Date of Report: 12/31/93 Sample number(s): SC124

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 16E Section: 9
Latitude: N32 34 20 Longitude: W110 43 06 Elevation (ft): 4480
7.5' or 15' Quadrangle Map Name: Campo Bonito Scale: 24000
Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☐ Copper ☐ Lead ☐ Mercury ☒ Zinc ☐ Other ☐

Status of Operation:

Past Producer ☐ Explored Prospect ☒ Raw Prospect ☐ Developed Prospect ☐
Status Unknown ☐

Type of Operation:

Surface ☒ Underground ☐ Surface and Underground ☐ Mineral Location ☐
Placer ☐ Prospect ☒ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐
No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐
Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐
Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☐ Marcasite ☐ Sphalerite ☐
Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐
Other FeOx ☐

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☐ Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐
Large Pit (> 10 ft) ☒ Quarry ☐ Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ☐ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

E347

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☒ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) Y

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

GA = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 10.4

Human Hazard (HH):

GA = Commodity (Table E-1, Human column).

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

2F = Access (Table 9).

HH = A x B x C x D x E x F = 3.1

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E348

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Unnamed adit

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC 225-SC 227

LOCATION DATA

State: AZ County: Pima Township: 11S Range: 16E Section: 16

Latitude: N32 28 33 Longitude: W110 43 32 Elevation (ft): 5560

7.5' or 15' Quadrangle Map Name: Mount Bigelow Scale: 24000

Mining or Mineral District: Marble Peak

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ☒ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E349

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☒ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = ~~1.2~~ 10.4

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Access (Table 9).

HH = A x B x C x D x E x F = ~~2.0~~ 31.1

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Unnamed adit

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC 186-SC188

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 16E Section: 30

Latitude: N22 32 20 Longitude: W110 44 38 Elevation (ft): 5440

7.5' or 15' Quadrangle Map Name: Campo Bonito Scale: _____

Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X
Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone X Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) Y

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E351

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

1.2A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1.2E = Milling Method (Table E-5).

1.2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = \underline{10.4}$$

Human Hazard (HH):

1.3A = Commodity (Table E-1, Human column).

1.3B = Status (Table E-2).

1.3C = Type (Table E-3).

1.3D = Size (Table E-4).

1.3E = Milling Method (Table E-5).

1.3F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = \underline{28.0}$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E352

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Unnamed adit

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC 201, SC 202

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 16E Section: 22

Latitude: N 32 31 41 Longitude: W 110 42 39 Elevation (ft): 5010

7.5' or 15' Quadrangle Map Name: Campo Bonito Scale: 24000

Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X

Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone X Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E353

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

- 1A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 1B = Status (Table E-2).
 1C = Type (Table E-3).
 1D = Size (Table E-4).
 1E = Milling Method (Table E-5).
 1F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 10.4$$

Human Hazard (HH):

- 1A = Commodity (Table E-1, Human column).
 1B = Status (Table E-2).
 1C = Type (Table E-3).
 1D = Size (Table E-4).
 1E = Milling Method (Table E-5).
 1F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 28.0$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E354

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Unnamed workings

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC163

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 16E Section: 20

Latitude: N32 33 07 Longitude: W110 43 23 Elevation (ft): 4770

7.5' or 15' Quadrangle Map Name: Campo Bonito Scale: 24000

Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium X Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground X Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena X Marcasite ___ Sphalerite ___

Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone X Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) 1

Large Pit (> 10 ft) 1 Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) X

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other deep shaft

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E355

WATER

Are bodies of water found on or near the site? (y/n) ✓

please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) ✓

Is water being produced from the feature? (y/n) ✓

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ✓

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) ✓

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ✓

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

1A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1B = Status (Table E-2).

1C = Type (Table E-3).

1D = Size (Table E-4).

1E = Milling Method (Table E-5).

1F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 10.4

Human Hazard (HH):

1A = Commodity (Table E-1, Human column).

1B = Status (Table E-2).

1C = Type (Table E-3).

1D = Size (Table E-4).

1E = Milling Method (Table E-5).

1F = Access (Table 9).

HH = A x B x C x D x E x F = 28.0

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon
Primary Name: Golden Earth & vicinity
Alternate Name: _____
MASDB MILS Table Sequence number: 0040210402
Date of Report: 12/31/93 Sample number(s): SC 125-SC 128

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 16E Section: 16
Latitude: N 32 34 02 Longitude: W 110 42 38 Elevation (ft): 4400
7.5' or 15' Quadrangle Map Name: Campo Bonito Scale: 24000
Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ☒ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ☒ Developed Prospect ___
Status Unknown ___

Type of Operation:

Surface ☒ Underground ___ Surface and Underground ___ Mineral Location ___
Placer ___ Prospect ☒ Dredging ___ Processing Plant ___ Well ___ Unknown ___
No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___
Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___
Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ☒
Large Pit (> 10 ft) ☒ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ___ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E357

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☒ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) Y

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1 B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

'EH = A x B x C x D x E x F = 10.4

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).

1 B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1 E = Milling Method (Table E-5).

2 F = Access (Table 9).

'HH = A x B x C x D x E x F = 25.9

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon
Primary Name: Unnamed adits
Alternate Name: _____
MASDB MILS Table Sequence number: _____
Date of Report: 12/31/93 Sample number(s): SC 198, SC 199

LOCATION DATA

State: AZ County: Pinal Township: 103 Range: 16E Section: 31
Latitude: N 32 31 37 Longitude: W 110 44 39 Elevation (ft): 6100
7.5' or 15' Quadrangle Map Name: Campo Bonita Scale: _____
Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ☒ Mercury ☒ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect ___ Developed Prospect ___

Status Unknown ☒

Type of Operation:

Surface ___ Underground ☒ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ☒ Marcasite ___ Sphalerite ___
Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 2 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ___ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ☒ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E359

WATER

Are bodies of water found on or near the site? (y/n) ✓

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) ✓

Is water being produced from the feature? (y/n) h

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) ✓

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) h

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) ✓

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.2 F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

$EH = A \times B \times C \times D \times E \times F = 10.4$

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).

1 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.2 F = Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 23.3$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

E360

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Unnamed workings

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC 84-SC 86

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 15E Section: 14

Latitude: N 32 34 18 Longitude: W 110 47 21 Elevation (ft): 4200

7.5' or 15' Quadrangle Map Name: Oracle SE Scale: 24000

Mining or Mineral District: Little Hills

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect X Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface X Underground ___ Surface and Underground ___ Mineral Location X

Placer ___ Prospect X Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___

Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) 1

Large Pit (> 10 ft) 1 Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ___ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

1361

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = \frac{12.4}{10.4}$$

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = \frac{28.8}{23.3}$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina-Rincon

Primary Name: Unnamed working

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC17

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 15E Section: 22

Latitude: N32 32 48 Longitude: W110 47 39 Elevation (ft): 4830

7.5' or 15' Quadrangle Map Name: Oracle SE Scale: 24000

Mining or Mineral District: Burney

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect X Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface X Underground ___ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect X Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___
Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) X
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) Y

Mark all conditions that apply:

Open to Entry ___ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E 363

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) Y

Is water being produced from the feature? (y/n) Y

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) Y

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) Y

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) Y

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6 A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.2 F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

$EH = A \times B \times C \times D \times E \times F = 10.4$

Human Hazard (HH):

9 A = Commodity (Table E-1, Human column).

1 B = Status (Table E-2).

1.2 C = Type (Table E-3).

1.2 D = Size (Table E-4).

1 E = Milling Method (Table E-5).

1.8 F = Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 23.3$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

E364

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Unnamed workings

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/96 Sample number(s): SC 7229

LOCATION DATA

State: Az County: Pima Township: 113 Range: 16E Section: 16

Latitude: N32 28 34 Longitude: W110 43 17 Elevation (ft): 5410

7.5' or 15' Quadrangle Map Name: Mount Bigelow Scale: 24000

Mining or Mineral District: Marble Peak

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect X Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface X Underground ___ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect X Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) 3

Large Pit (> 10 ft) 2 Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ___ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E365

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☒ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) X

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

^{10}A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

^{11}B = Status (Table E-2).

^{12}C = Type (Table E-3).

^{13}D = Size (Table E-4).

^{14}E = Milling Method (Table E-5).

^{15}F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$$^{16}EH = A \times B \times C \times D \times E \times F = \underline{8.6}$$

Human Hazard (HH):

^{17}A = Commodity (Table E-1, Human column).

^{18}B = Status (Table E-2).

^{19}C = Type (Table E-3).

^{20}D = Size (Table E-4).

^{21}E = Milling Method (Table E-5).

^{22}F = Access (Table 9).

$$^{23}HH = A \times B \times C \times D \times E \times F = \underline{25.9}$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: $EH > 20$

Category B: EH between 7 and 20

Category C: $EH < 7$

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina-Rincon

Primary Name: Unnamed workings

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC 216-SC 223

LOCATION DATA

State: Az County: Pima Township: 11S Range: 16E Section: 18

Latitude: N32 28 53 Longitude: W110 45 28 Elevation (ft): 6100

7.5' or 15' Quadrangle Map Name: Mt. Lemmon Scale: 24000

Mining or Mineral District: Marble Peak

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper X Lead X Mercury ___ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect X

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide X Limonite ___
Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone X Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft 2 Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) Y

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other shafts, winzes

Size of Feature (ft)

Length ___ x Width ___ x Height ___

F 367

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) X

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing X Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color unknown

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

5A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 8.6

Human Hazard (HH):

8A = Commodity (Table E-1, Human column).

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.8F = Access (Table 9).

HH = A x B x C x D x E x F = 24.9

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E368

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Unnamed outcrop

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC181

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 16E Section: 30

Latitude: N32 32 19 Longitude: W110 44 54 Elevation (ft): 5720

7.5' or 15' Quadrangle Map Name: Campo Bonito Scale: 24000

Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect X Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground ___ Mineral Location X

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___

Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone X Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ___ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

GA = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

GB = Status (Table E-2).

GC = Type (Table E-3).

GD = Size (Table E-4).

GE = Milling Method (Table E-5).

GF = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 9.6

Human Hazard (HH):

GA = Commodity (Table E-1, Human column).

GB = Status (Table E-2).

GC = Type (Table E-3).

GD = Size (Table E-4).

GE = Milling Method (Table E-5).

GF = Access (Table 9).

HH = A x B x C x D x E x F = 23.3

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E370

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina-Rincon

Primary Name: Unnamed working

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC120

LOCATION DATA

State: Az County: Pinal Township: 10 S Range: 16 E Section: 128

Latitude: N32 34 39 Longitude: W110 43 26 Elevation (ft): 4560

7.5' or 15' Quadrangle Map Name: Campo Bonito Scale: 24000

Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☐ Copper ☐ Lead ☐ Mercury ☒ Zinc ☐ Other ☐

Status of Operation:

Past Producer ☐ Explored Prospect ☐ Raw Prospect ☒ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☒ Underground ☐ Surface and Underground ☐ Mineral Location ☐

Placer ☐ Prospect ☒ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ☐

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐

Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐

Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☐ Marcasite ☐ Sphalerite ☐

Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐

Other FeOx ☐

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐

Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☐ Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐

Large Pit (> 10 ft) ☒ Quarry ☐ Placer ☐ Building ☐ Machinery ☐

Cistern ☐ Solution Mining Well ☐ Mine Dump ☐ Mill Tailings ☐

Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐

Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ☐ Partly Caved ☐ Concealed ☐ Partly Concealed ☐

Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐

Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐

Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

E371

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

CA = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

CB = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 8.6

Human Hazard (HH):

HA = Commodity (Table E-1, Human column).

HB = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1F = Access (Table 9).

HH = A x B x C x D x E x F = 23.3

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites.

These sites should be examined in order of rank after category A is dealt with.

These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

E372

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: ~~San~~ Santa Catalina - Rincon

Primary Name: Unnamed workings

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC 67, SC 68

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 15E Section: 23

Latitude: N 32 33 07 Longitude: W 110 47 22 Elevation (ft): 4160

7.5' or 15' Quadrangle Map Name: Oracle SE Scale: 24000

Mining or Mineral District: Burney

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead X Mercury X Zinc X Other Ag

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect X Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground ___ Surface and Underground X Mineral Location ___

Placer ___ Prospect X Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena X Marcasite ___ Sphalerite ___
Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X
Other FeOx X

Neutralizing Host Rock:

Dolomite ___ Limestone X Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft 1 Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) 1 Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E373

WATER

Are bodies of water found on or near the site? (y/n) Y

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☒ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site ☒

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

6A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

1EH = A x B x C x D x E x F = 8.6

Human Hazard (HH):

9A = Commodity (Table E-1, Human column).

1B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.8F = Access (Table 9).

1HH = A x B x C x D x E x F = 23.3

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

E374

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - RinconPrimary Name: Unnamed working

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC157

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 16E Section: 17Latitude: N32 33 26 Longitude: W110 43 52 Elevation (ft): 49407.5' or 15' Quadrangle Map Name: Campo Bonito Scale: 24000Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury X Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ___ Raw Prospect X Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface X Underground ___ Surface and Underground ___ Mineral Location ___Placer ___ Prospect X Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___

Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___

Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ___

Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) X Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ___ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E 375

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) Y

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1F = Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = \underline{8.6}$$

Human Hazard (HH):

A = Commodity (Table E-1, Human column).

B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = \underline{23.3}$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

¹Within a table, take only the highest value as the total value for that table.

E376

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina-Rincon

Primary Name: Unnamed adit

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC253

LOCATION DATA

State: AZ County: Pima Township: 12S Range: 17E Section: 23

Latitude: N32 22 44 Longitude: W110 34 16 Elevation (ft): 3720

7.5' or 15' Quadrangle Map Name: Buehman Canyon Scale: 24000

Mining or Mineral District: none

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper X Lead ___ Mercury ___ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ___ Underground X Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite ___ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone X Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit 1 Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) ___ Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump ___ Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) Y

Mark all conditions that apply:

Open to Entry X Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other bad back

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E377

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

SA = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1F = Acid potential: If any indicator minerals were checked AND neutralizing host rocks are not present, F = 1.2; otherwise F = 1.0

$$EH = A \times B \times C \times D \times E \times F = 8.6$$

Human Hazard (HH):

SA = Commodity (Table E-1, Human column).

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.3F = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = 15.6$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is B.

Within a table, take only the highest value as the total value for that table.

E378

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Unnamed Working

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC 69

LOCATION DATA

State: AZ County: Pinal Township: 10 S Range: 15 E Section: 23

Latitude: N32 32 49 Longitude: W110 47 06 Elevation (ft): 4240

7.5' or 15' Quadrangle Map Name: Oracle SE Scale: 24000

Mining or Mineral District: Burney

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☒ Cadmium _____ Copper _____ Lead _____ Mercury _____ Zinc _____ Other _____

Status of Operation:

Past Producer _____ Explored Prospect ☒ Raw Prospect _____ Developed Prospect _____

Status Unknown _____

Type of Operation:

Surface ☒ Underground _____ Surface and Underground _____ Mineral Location _____

Placer _____ Prospect _____ Dredging _____ Processing Plant _____ Well _____ Unknown _____

No Data _____

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) _____

Medium (250,000 to 500,000 st) _____ Medium to Large (500,000 to 1,000,000 st) _____

Large (over 1,000,000 st) _____

HISTORICAL DATA (con't)

Milling Method:

Amalgamation _____ Arrastre _____ Gravity _____ Crusher only _____ Heap Leach _____
Leach _____ CIP _____ Cyanidation _____ Stamp _____ Flotation _____
Jig Plant _____ Retort _____ No Mill ☒ Unknown _____

Acid Producing or Indicating Minerals:

Arsenopyrite _____ Chalcopyrite _____ Galena _____ Marcasite _____ Sphalerite _____
Pyrite _____ Pyrrhotite _____ Stibnite _____ Other sulfide _____ Limonite _____
Other FeOx _____

Neutralizing Host Rock:

Dolomite _____ Limestone _____ Marble _____ Micrite _____ Sparite _____
Other Carbonate _____

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit _____ Decline _____ Shaft _____ Glory Hole _____ Small Pit or Trench (< 10 ft) _____
Large Pit (> 10 ft) ☒ Quarry _____ Placer _____ Building _____ Machinery _____
Cistern _____ Solution Mining Well _____ Mine Dump _____ Mill Tailings _____
Leach Pad _____ Highwall _____ Solution Pond _____ Ore Stockpile _____ Subsidence _____
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒ N/

Mark all conditions that apply:

Open to Entry _____ Partly Caved _____ Concealed _____ Partly Concealed _____
Collapsed _____ Partly Collapsed _____ Standing _____ Empty _____ Rotten Cribbing _____
Unstable Wall _____ Eroded _____ Partly Eroded _____ Intact _____ Subsided _____
Foundation _____ Prone to Wind Erosion _____ Other _____

Size of Feature (ft)

Length _____ x Width _____ x Height _____

E379

WATER

Are bodies of water found on or near the site? (y/n) X

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream X Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

4A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 06.9

Human Hazard (HH):

7A = Commodity (Table E-1, Human column).

1.2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.2D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.8F = Access (Table 9).

HH = A x B x C x D x E x F = 21.8

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is C.

¹Within a table, take only the highest value as the total value for that table.

E-380

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon
Primary Name: ~~Silver Reef~~ Gold Hill
Alternate Name: Silver Reef
MASDB MILS Table Sequence number:
Date of Report: 12/31/93 Sample number(s): Sc82, Sc83

LOCATION DATA

State: Az County: Pinal Township: 10S Range: 16E Section: 14
Latitude: N32 33 51 Longitude: W110 47 21 Elevation (ft): 4400
7.5' or 15' Quadrangle Map Name: Oracle SE Scale: 24000
Mining or Mineral District: Little Hills

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ☐ Cadmium ☐ Copper ☐ Lead ☐ Mercury ☐ Zinc ☐ Other ☐

Status of Operation:

Past Producer ☒ Explored Prospect ☐ Raw Prospect ☐ Developed Prospect ☐

Status Unknown ☐

Type of Operation:

Surface ☒ Underground ☐ Surface and Underground ☐ Mineral Location ☐

Placer ☐ Prospect ☐ Dredging ☐ Processing Plant ☐ Well ☐ Unknown ☐

No Data ☐

Size based on production of ore to date:

Small (0 to 10,000 st) ☐ Small to Medium (10,000 to 250,000 st) ☒

Medium (250,000 to 500,000 st) ☐ Medium to Large (500,000 to 1,000,000 st) ☐

Large (over 1,000,000 st) ☐

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ☐ Arrastre ☐ Gravity ☐ Crusher only ☐ Heap Leach ☐
Leach ☐ CIP ☐ Cyanidation ☐ Stamp ☐ Flotation ☐
Jig Plant ☐ Retort ☐ No Mill ☒ Unknown ☐

Acid Producing or Indicating Minerals:

Arsenopyrite ☐ Chalcopyrite ☐ Galena ☐ Marcasite ☐ Sphalerite ☐
Pyrite ☐ Pyrrhotite ☐ Stibnite ☐ Other sulfide ☐ Limonite ☐
Other FeOx ☒

Neutralizing Host Rock:

Dolomite ☐ Limestone ☐ Marble ☐ Micrite ☐ Sparite ☐
Other Carbonate ☐

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ☐ Decline ☐ Shaft ☐ Glory Hole ☐ Small Pit or Trench (< 10 ft) ☐
Large Pit (> 10 ft) ☐ Quarry 2 Placer ☐ Building ☐ Machinery ☐
Cistern ☐ Solution Mining Well ☐ Mine Dump ☒ Mill Tailings ☐
Leach Pad ☐ Highwall ☐ Solution Pond ☐ Ore Stockpile ☐ Subsidence ☐
Other ☐

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) A/

Mark all conditions that apply:

Open to Entry ☒ Partly Caved ☐ Concealed ☐ Partly Concealed ☐
Collapsed ☐ Partly Collapsed ☐ Standing ☐ Empty ☐ Rotten Cribbing ☐
Unstable Wall ☐ Eroded ☐ Partly Eroded ☐ Intact ☐ Subsided ☐
Foundation ☐ Prone to Wind Erosion ☐ Other ☐

Size of Feature (ft)

Length ☐ x Width ☐ x Height ☐

E381

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☒ 4WD Road to < 1/2 mi of site ☐

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

1A = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.4D = Size (Table E-4).

1E = Milling Method (Table E-5).

1.2F = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, F = 1.2; otherwise F = 1.0

EH = A x B x C x D x E x F = 4.0

Human Hazard (HH):

1A = Commodity (Table E-1, Human column).

2B = Status (Table E-2).

1.2C = Type (Table E-3).

1.4D = Size (Table E-4).

1E = Milling Method (Table E-5).

2F = Access (Table 9).

HH = A x B x C x D x E x F = 6.7

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20

Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is C.

Within a table, take only the highest value as the total value for that table.

E382

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Unnamed Working

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC179, SC180

LOCATION DATA

State: Az county: Pinal Township: 103 Range: 16E Section: 30

Latitude: N32 32 19 Longitude: W110 45 04 Elevation (ft): 6000

7.5' or 15' Quadrangle Map Name: Oracle SE Scale: 24000

Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ___ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect ☒ Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface ☒ Underground ___ Surface and Underground ___ Mineral Location ___

Placer ___ Prospect ___ Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) ☒ Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill ☒ Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___

Pyrite ☒ Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite ☒

Other FeOx ☒

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___

Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___

Large Pit (> 10 ft) ☒ Quarry ___ Placer ___ Building ___ Machinery ___

Cistern ___ Solution Mining Well ___ Mine Dump ☒ Mill Tailings ___

Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___

Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) ☒

Mark all conditions that apply:

Open to Entry ___ Partly Caved ___ Concealed ___ Partly Concealed ___

Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___

Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___

Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E383

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other ☐

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color ☐

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other ☐

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location ☐

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other ☐

HAZARD CALCULATIONS

Environmental Hazard (EH):

$\frac{1}{2}A$ = Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.

$\frac{1}{2}B$ = Status (Table E-2).

$\frac{1}{2}C$ = Type (Table E-3).

$\frac{1}{2}D$ = Size (Table E-4).

$\frac{1}{2}E$ = Milling Method (Table E-5).

$\frac{1}{2}F$ = Acid potential: If any indicator minerals were checked AND neutralizing has rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$$EH = A \times B \times C \times D \times E \times F = \underline{2.1}$$

Human Hazard (HH):

$\frac{1}{2}A$ = Commodity (Table E-1, Human column).

$\frac{1}{2}B$ = Status (Table E-2).

$\frac{1}{2}C$ = Type (Table E-3).

$\frac{1}{2}D$ = Size (Table E-4).

$\frac{1}{2}E$ = Milling Method (Table E-5).

$\frac{1}{2}F$ = Access (Table 9).

$$HH = A \times B \times C \times D \times E \times F = \underline{3.1}$$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
Category B: EH between 7 and 20

Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is C.

Within a table, take only the highest value as the total value for that table.

E384

AML INVENTORY AND INVESTIGATION DATA ENTRY FORM
US Bureau of Mines - IFOC

Management Unit: Santa Catalina - Rincon

Primary Name: Unnamed Working

Alternate Name: _____

MASDB MILS Table Sequence number: _____

Date of Report: 12/31/93 Sample number(s): SC182, SC183

LOCATION DATA

State: AZ County: Pinal Township: 10S Range: 16E Section: 30

Latitude: N32 32 28 Longitude: W110 45 01 Elevation (ft): 5300

7.5' or 15' Quadrangle Map Name: Oracle SE Scale: 24000

Mining or Mineral District: Oracle

HISTORICAL DATA

Please mark with an X all that apply.

Elements produced and/or noted in geochemical analyses:

Arsenic ___ Cadmium ___ Copper ___ Lead ___ Mercury ___ Zinc ___ Other ___

Status of Operation:

Past Producer ___ Explored Prospect X Raw Prospect ___ Developed Prospect ___

Status Unknown ___

Type of Operation:

Surface X Underground ___ Surface and Underground ___ Mineral Location X

Placer ___ Prospect X Dredging ___ Processing Plant ___ Well ___ Unknown ___

No Data ___

Size based on production of ore to date:

Small (0 to 10,000 st) X Small to Medium (10,000 to 250,000 st) ___

Medium (250,000 to 500,000 st) ___ Medium to Large (500,000 to 1,000,000 st) ___

Large (over 1,000,000 st) ___

HISTORICAL DATA (con't)

Milling Method:

Amalgamation ___ Arrastre ___ Gravity ___ Crusher only ___ Heap Leach ___
Leach ___ CIP ___ Cyanidation ___ Stamp ___ Flotation ___
Jig Plant ___ Retort ___ No Mill X Unknown ___

Acid Producing or Indicating Minerals:

Arsenopyrite ___ Chalcopyrite ___ Galena ___ Marcasite ___ Sphalerite ___
Pyrite X Pyrrhotite ___ Stibnite ___ Other sulfide ___ Limonite X
Other FeOx ___

Neutralizing Host Rock:

Dolomite ___ Limestone ___ Marble ___ Micrite ___ Sparite ___
Other Carbonate ___

TYPE AND NUMBER OF WORKINGS

(indicate with an X or 1, 2, etc.)

Adit ___ Decline ___ Shaft ___ Glory Hole ___ Small Pit or Trench (< 10 ft) ___
Large Pit (> 10 ft) X Quarry ___ Placer ___ Building ___ Machinery ___
Cistern ___ Solution Mining Well ___ Mine Dump X Mill Tailings ___
Leach Pad ___ Highwall ___ Solution Pond ___ Ore Stockpile ___ Subsidence ___
Other _____

Condition of site and/or feature

Does the condition of the feature represent a hazard? (y/n) N

Mark all conditions that apply:

Open to Entry ___ Partly Caved ___ Concealed ___ Partly Concealed ___
Collapsed ___ Partly Collapsed ___ Standing ___ Empty ___ Rotten Cribbing ___
Unstable Wall ___ Eroded ___ Partly Eroded ___ Intact ___ Subsided ___
Foundation ___ Prone to Wind Erosion ___ Other _____

Size of Feature (ft)

Length ___ x Width ___ x Height ___

E385

WATER

Are bodies of water found on or near the site? (y/n) N

Please mark with an X all that apply:

Stream ☐ River ☐ Pond ☐ Intermittent Stream ☐ Lake ☐ Bay ☐

Other _____

Is water present at the feature? (y/n) N

Is water being produced from the feature? (y/n) N

If water is present, how does it occur?:

Standing ☐ Filled ☐ Partly Filled ☐ Flowing ☐ Intermittent ☐

If water is present, what color is it?:

Brown ☐ Green ☐ Yellow ☐ Yellow/orange ☐ Orange ☐ Gray/black ☐

Other color _____

MACHINERY

Is machinery present at the site? (y/n) N

Location of Machinery:

Inside Building ☐ Outside Building ☐ No Building, Other Location ☐

Type of Machinery:

Flotation Cell ☐ Retort ☐ Stamp Mill ☐ Crusher ☐ Ball or Rod Mill ☐

Amalgamation Equipment ☐ Arrastre ☐ Ore Bins ☐ Tanks ☐ Other _____

EXPLOSIVES

Are any explosives or blasting supplies found on the site? (y/n) N

If present, give type and location _____

ACCESS

Access is by:

Maintained Road ☐ 4WD Road to < 1/2 mi of site X

4WD Road > 1/2 mi from site ☐ Trail or undrivable Road ☐ Cross-country ☐

There is a habitation < 1/2 mi from the site (y/n) N

OTHER

Are any of the following other features present?:

Drums or Tanks ☐ Headframes ☐ Tramways ☐ Bags ☐ Scrap Metal ☐

Trestles ☐ Wooden Structures ☐ Overhead Cables ☐ Powerlines ☐

Power Substations ☐ Transformers ☐ Chemicals ☐ Other _____

HAZARD CALCULATIONS

Environmental Hazard (EH):

$EA =$ Commodity (Table E-1, Environmental column) produced historically or noted in analyses. Use the highest number for commodities noted.
 $EB =$ Status (Table E-2).
 $EC =$ Type (Table E-3).
 $ED =$ Size (Table E-4).
 $EE =$ Milling Method (Table E-5).
 $EF =$ Acid potential: If any indicator minerals were checked AND neutralizing hos rocks are not present, $F = 1.2$; otherwise $F = 1.0$

$EH = A \times B \times C \times D \times E \times F = 2.1$

Human Hazard (HH):

$HA =$ Commodity (Table E-1, Human column).
 $HB =$ Status (Table E-2).
 $HC =$ Type (Table E-3).
 $HD =$ Size (Table E-4).
 $HE =$ Milling Method (Table E-5).
 $HF =$ Access (Table 9).

$HH = A \times B \times C \times D \times E \times F = 3.1$

PRIORITY

Sites will be ranked for each mountain range. The FS is presently under the gun on environmental hazards only. Numerical ranking will, therefore, be by EH as follows:

Category A: EH > 20
 Category B: EH between 7 and 20
 Category C: EH < 7

These are priority sites. These sites should be examined in order of rank after category A is dealt with. These sites may not need to be examined.

The category for this site is C.

Within a table, take only the highest value as the total value for that table.